



Antibody List

May 2009

ANTIBODIES

2009

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Viral Proteins

Human Papillomavirus (HPV) Proteins

HPV 11 L1

Clone	Viral major structural protein, capsid protein L1 of HPV 11, VLPs VII87.6
Isotype	IgG1
Application	ELISA, Immunofluorescence
References	
Relevance	
Reactivity	Recognizes HPV 11 and HPV 6b L1
Epitope	unknown
Immunogen	

HPV 11 - E2

Clone	Mouse mAb for human papilloma virus HPV11-E2
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. protein, His-tag

HPV 16 L1

Clone	Viral major structural protein, capsid protein L1 of HPV 16, VLPs, 1.3.5, Mouse monoclonal
Isotype	IgG2a
Application	ELISA, Immunofluorescence
References	Müller et al. Virology, 1997, Chimeric Virus-like particles
Relevance	
Reactivity	HPV 16 specific
Epitope	unknown
Immunogen	

Clone	#4BG11 and two related clones
Isotype	unknown
Application	ELISA, Immunofluorescence
References	
Relevance	
Reactivity	Recognizes HPV 11 and 16 in western-blotting, immunofluorescence, ELISA in form of virus-like particles and denatured protein
Epitope	Conserved region on L1, peptide known
Immunogen	synthetic peptide used for immunization

HPV 16 L2

Clone	Minor structural protein of HPV 16
Isotype	HPV16L2JGmab#2 and seven related clones
Application	IgG1 (and IgG2a)
References	ELISA, immunofluorescence, western-blotting
Relevance	
Reactivity	Reacts with HPV 16L2, one clone (#11) also with HPV 18L2
Epitope	N-terminal 150 aminoacids of L2
Immunogen	GST-HPV 16L2 protein

HPV 16 - E6

Clone	Human papilloma virus, Early transforming protein of HPV 16
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. Protein, His-tag

HPV 16 - E7

Clone	Human papilloma virus, Early transforming protein of HPV 16
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. Protein, His-tag
Clone	NMIII
Isotype	IgG1
Application	Western-Blotting, Immunofluorescence, ELISA
References	
Relevance	
Reactivity	Slightly higher crossreactivity against cellular proteins compared to NMII
Epitope	Aminoacids 55-98 of E7
Immunogen	
Clone	NMII
Isotype	IgG2a
Application	Western-Blotting, Immunofluorescence, ELISA
References	
Relevance	
Reactivity	
Epitope	Amino acids 35-65 of E7
Immunogen	

HPV 18 - E6

Clone	Human papilloma virus
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. Protein, His-tag

HPV 18 - E7

Clone	Human papilloma virus
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. Protein, His-tag

HPV 20 - E6

Human papilloma virus
Rat mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

f.l. protein, His-tag

HPV 20 - E7

Human papilloma virus
Rat mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

f.l. protein, His-tag

HPV 27 - E6

Human papilloma virus
Rat mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

f.l. protein, His-tag

HPV 27 - E7

Human papilloma virus
Rat mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

f.l. protein, His-tag

Bovine Papillomavirus (BPV) Proteins

BPV 1 L1

Clone	Viral major structural protein, capsid protein L1 of BPV1, VLPs 3.6
Isotype	IgG1
Application	ELISA, Immunofluorescence
References	
Relevance	
Reactivity	BPV 1 specific
Epitope	unknown
Immunogen	

BPV 1 E7

Clone	Early transforming protein of BPV 1 10f5
Isotype	
Application	ELISA, Immunofluorescence
References	
Relevance	
Reactivity	
Epitope	
Immunogen	

Other Viral Proteins

HBC/n

Clone	Hepatitis B-virus core protein/native Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	F.I. protein, isolated under native conditions or refolded, His-tag

HBX

Clone	mouse mAb for hepatitis B-virus X-protein;
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. protein, MS2-tag;

VP22

Clone	Herpes simplex virus 1 (HSV-1), tegument protein VP22 Rat mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	Aa 1-83 and aa 190-303, His-tag

Cytokines, Chemokines, Growth Factors and Receptors

CCR10

	Chemokine receptor
Clone	Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	Peptide, KLH- and BSA-tag

EGFR

	Epidermal growth factor receptor
Clone	Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	Polypeptide aa 972-1272, His-tag

eIFN γ

	Equine Interferon gamma, horse interferon, Recombinant equine interferon gamma from E. coli
Clone	R25E5 and two related clones rat monoclonal antibody
Isotype	unknown
Application	ELISA, immunofluorescence
References	Bolte et al. Vet. Imm. Imm. 2004 in press
Relevance	
Reactivity	Reacts with recombinant and authentic equine IFN γ
Epitope	unknown
Immunogen	
Clone	M23D and 10 related clones, mouse monoclonal antibody
Isotype	IgG2a (and others)
Application	ELISA, immunofluorescence, western-blotting
References	Bolte et al. Vet. Imm. Imm. 2004 in press
Relevance	
Reactivity	Reacts with recombinant and authentic equine IFN γ
Epitope	Unknown
Immunogen	

MFG-E8

	milk fat globulin – EGF Factor 8;
Clone	mouse mAb;
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	antigen: peptide, KLH- and BSA-conjugation;

Tags and Markers

GST

Clone	Glutathion S Transferase GSTJGmab#2
Isotype	IgG2a
Application	ELISA, western-blotting
References	
Relevance	
Reactivity	Reacts with recombinant GST fusion proteins
Epitope	Unknown
Immunogen	GST-HPV 16L2 protein

Clone	Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	GST-tag

MBP

Clone	Maltose-binding-protein Mouse mAb
Isotype	
Application	WB; ELISA
References	
Relevance	
Reactivity	
Epitope	
Immunogen	MBP-tag

V 5- tag

Clone	mouse mAb and rat mAb;
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	antigen: GKPILNPLLGLDST, KLH –and BSA – conjugation;

Nus/S-tag

	Nus/S-tag is used to identify and purify fusion proteins produced in bacteria
Clone	mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	

Tumor Suppressors

APC

Clone	Adenomatous Polyposis Coli
Isotype	Mouse mAb
Application	
References	IP, IF
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. Protein, His-tag

p 53

Clone	Tumor suppressor;
Isotype	mouse mAb and rat mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	antigen: f.l. protein/ wt, His-tag

Proteinases, Kinases, Phosphatases

HIPK-2

Clone	Homoedomain-interacting-protein kinase-2
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	Peptide KLH and BSA-tag

LAR

Clone	Leucocyte common antigen related molecule, PTPRF-protein phosphate receptor type F
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	KLH- and BSA-tag

PTEN

Clone	Phosphatase and tensin homolog, BZS, MHAM, TEP1, MMAC1, PTEN1, MGC11227
Isotype	
Application	
References	
Relevance	
Reactivity	

Epitope
Immunogen

f.l. His-tag

Cell Adhesion

EpCAM

	Epithelial cell adhesion molecule Stable marker on many adenocarcinomas
Clone	HEA125
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation, Western blotting
References	Moldenhauer et al. Br. J. Cancer 56:714, 1987; Momburg et al. Cancer Res. 47:2883, 1987
Relevance	Detection of normal and neoplastic epithelial cells
Reactivity	Human
Epitope	Extracytoplasmic part of EpCAM
Immunogen	Carcinoma cells
Clone	HEA125/2a
Isotype	Mouse IgG2a, switch variant of HEA125
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation, Western blotting
References	Moldenhauer et al. Br. J. Cancer 56:714, 1987; Momburg et al. Cancer Res. 47:2883, 1987
Relevance	Detection of normal and neoplastic epithelial cells
Reactivity	Human
Epitope	Extracytoplasmic part of EpCAM
Immunogen	Carcinoma cells
Clone	HEA125/2b
Isotype	Mouse IgG2b, switch variant of HEA125
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation, Western blotting
References	Moldenhauer et al. Br. J. Cancer 56:714, 1987; Momburg et al. Cancer Res. 47:2883, 1987
Relevance	Detection of normal and neoplastic epithelial cells
Reactivity	Human
Epitope	Extracytoplasmic part of EpCAM
Immunogen	Carcinoma cells

JAM4

	Junctional adhesion molecule (slit diaphragm-protein)
Clone	Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	Polypeptide, cytoplasmic tail aa 262-370, GST-tag or His-tag

Apoptosis

Bcl-2alpha

Clone	Apoptotic inhibitor, bcl-2 proto-oncogene, splice variant alpha, Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. protein, His-tag

Bcl-2beta

Clone	Apoptotic inhibitor, bcl-2 proto-oncogene, splice variant beta Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. protein His-tag

FasL

Clone	Fas Ligand Mouse mAb
Isotype	
Application	
References	Verbeke, C.S., Wenthe, U., Bergler, W.F. and Zentgraf, H.: Characterisation of the expanded T-cell population in mononucleosis infectiosa: Apoptosis, expression of apoptosis-related genes, and EBV- status. Clin. Exp. Immunol. <u>120</u> , 294-300 (2000) Verbeke, C., Wenthe, U., Grobholz, R., Zentgraf, H.: FAS ligand expression in Hodgkin`s disease. Am. J. Surg. Pathol. <u>25</u> , 388-394 (2001) Grobholz R., Zentgraf H., Kohrmann K. U., Bleyl U.: Bax, Bcl-2, Fas and Fas-L antigen expression in human seminoma: Correlation with the apoptotic index. Apmis, <u>110</u> , 724-732 (2002)
Relevance	
Reactivity	
Epitope	
Immunogen	Polypeptide aa 94-281, His-tag

Mitosis

p 21

Clone	mitotic inhibitor, gene alias: WAF 1 / Cip 1;
Isotype	mouse mAb and rat mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	antigen: f.l. protein, His-tag;
for internal use only	
Patented	
Inventors	
Place of origin	

p16

Clone	Mitotic inhibitor protein 16
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	His-tag

Transcription

S 14

Clone	ribosomal protein S 14
Isotype	mouse mAb;
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	antigen: f. l. protein, His-tag;

TIF-1A

Clone	Mouse-transcription-initiation factor
Isotype	Mouse mAb
Application	
References	Bodem, J., Dobрева, G., Hoffmann-Rohrer, U., Iben, S., Zentgraf, H., Delius, H., Vingron, M. and Grummt, I.: TIF-1A, the factor mediating growth-dependent control of ribosomal RNA synthesis, is the mammalian homolog of yeast Rrn3p. <i>EMBO Reports</i> 1 , 171-175 (2000) Yuan X.J., Zhao E., Zentgraf H., Hoffmann-Rohrer U., Grummt I.: Multiple interactions between RNA polymerase I, TIF-1A and TAF(I) subunits regulate preinitiation complex assembly at the ribosomal gene promoter. <i>EMBO Reports</i> , 3 , 1082-1087 (2002)
Relevance	
Reactivity	
Epitope	
Immunogen	KLH and BSA-tag

TIF-III A-XI

Clone	Xenopus laevis 5 sRNA gene transcription factor
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	BamH1-Hind III fragment

MSIR 2

Clone	Mouse silent information regulator 2 /transcriptional silencing protein / NAD-dependent-histone deacetylase
Isotype	Mouse mAb
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	BSA-tag

Signaling

Agrin

Clone	Agrin resides in the basal lamina of muscle cells and directs postsynaptic differentiation
Isotype	mouse mab
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	His-tag Full length

C4.8/NET

Member of the tetraspanin family, proliferation associated protein
Mouse mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

Extracellular domain, ca 15 kDa, His.tag

Densin 180

Slit diaphragm protein, Lamin associated polypeptide, LAP1, KIAA1365
Mouse mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

Polypeptide/cytoplasmic tail, aa 1242-1490, His-tag

SOCS3

Suppressor of cytokine signalling
Mouse mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

KLH and BSA-tag

SOCS pan

Suppressor of cytokine signalling
Mouse mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

KLH and BSA-tag

p27kIP

Cdkn1b- cyclin-dependent kinase inhibitor 1B (p27)
Mouse mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen

His-tag

PSR

Clone	phosphatidylserine receptor, gene alias: KIAA
Isotype	mouse mAb;
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	antigen: peptide, KLH- and BSA-conjugation

RGS7

Clone	Regulator of G protein signaling
Isotype	Mouse mAb
Application	
References	Benzing, T., Kottgen, M., Johnson, M., Schermer, B., Zentgraf, H., Kim, E. and Walz, G.: Interaction of 14-3-3 with regulator of G protein signaling 7 is dynamically regulated by tumor necrosis factor-alpha. J. Biol. Chem., <u>277</u> , 32954-62 (2002)
Relevance	
Reactivity	
Epitope	
Immunogen	Aa 179-469

TRP – C6

Clone	transient receptor potential (family of cation channels),
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	antigen: aa 703 – 921, His-tag; mouse mAb;

Leukocyte Differentiation Antigens

AID

Clone	Activation-induced deaminase Enzyme involved in hypermutation and class switching of immunoglobulin genes
Isotype	AID-C12.38
Application	Mouse IgG1 Immunohistology, immunocytology, immunoprecipitation, Western blotting
References	
Relevance	Detection of normal and neoplastic B lymphocyte subpopulation
Reactivity	Human
Epitope	Intracytoplasmic portion of AID
Immunogen	C-terminal peptide

CD3

Clone	Pan T lymphocyte antigen; associated with T cell receptor (TCR)
Isotype	LE-CD3 (linear epitope on CD3)
Application	Mouse IgG1
References	Immunohistology on paraffin sections, Western blotting
Relevance	CD3 reagent working on paraffin sections
Reactivity	Human
Epitope	Intracytoplasmic portion of CD3 epsilon-chain
Immunogen	C-terminal peptide

CD5

Clone	Mature T lymphocyte antigen
Isotype	HK231
Application	Mouse IgG1
References	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
Relevance	Detection of normal and neoplastic T lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD5
Immunogen	CLL cells

CD19

Clone	Pan B lymphocyte antigen
Isotype	LE-CD19 (linear epitope on CD19)
Application	Mouse IgG1
References	Immunohistology on paraffin sections, Western blotting
Relevance	First and only CD19 reagent working on paraffin sections
Reactivity	Human
Epitope	Intracytoplasmic portion of CD19
Immunogen	C-terminal peptide
Clone	HD37
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Pezzutto et al. 1987. J. Immunol. 138: 2793.
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD19
Immunogen	HCL cells
Clone	HD237
Isotype	Mouse IgG2b, switch variant of HD37
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Pezzutto et al. 1987. J. Immunol. 138: 2793; Kiesel et al. 1987. Leukemia Res. 11: 1119.
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD19
Immunogen	HCL cells
Clone	BCE19
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD19
Immunogen	A20/CD19 transfectant

CD22

Clone	Mature B lymphocyte antigen HD6
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Dörken et al. 1986. J. Immunol. 136: 4470; Schwartz-Albiez et al. 1991. Int. Immunol. 3: 623.
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD22
Immunogen	HCL cells
Clone	HD39
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Dörken et al. 1986. J. Immunol. 136: 4470; Schwartz-Albiez et al. 1991. Int. Immunol. 3: 623.
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD22 HD39 recognizes a distinct epitope than HD6
Immunogen	HCL cells
Clone	HD239
Isotype	Mouse IgG2b, switch variant of HD39
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Dörken et al. 1986. J. Immunol. 136: 4470; Schwartz-Albiez et al. 1991. Int. Immunol. 3: 623; Kiesel et al. 1987. Leukemia Res. 11: 1119.
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD22 HD239 recognizes a distinct epitope than HD6
Immunogen	HCL cells

CD23

Clone	Antigen on B lymphocytes and monocytes, low affinity Fc receptor for IgE HD50
Isotype	Mouse IgG2b
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Dörken et al. 1989. Leucocyte Typing IV, p. 67-70, Oxford University Press, Oxford
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD23
Immunogen	
for internal use only	
Patented	
Inventors	G. Moldenhauer and B. Dörken (Charité Berlin)
Place of origin	DKFZ and Universität Heidelberg

CD37

Clone	Mature B lymphocyte antigen HD28
Isotype	Mouse IgG2a
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Schwartz-Albiez et al. 1988. J. Immunol. 140: 905.
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic part of CD37
Immunogen	B-ALL cells

CD53

Clone	Pan leukocyte antigen HD77
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Hadam, MR. 1989. Leucocyte Typing IV, p. 674-678, Oxford University Press, Oxford
Relevance	Detection of normal and neoplastic white blood cells
Reactivity	Human
Epitope	Extracytoplasmic part of CD53
Immunogen	Leukemia cells

CD71

Clone	Transferrin receptor PA-1
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	Moldenhauer and Schwartz-Albiez. 1989. Leucocyte Typing IV, p. 154-162, Oxford University Press, Oxford.
Relevance	Detection of proliferating cells (all cell types)
Reactivity	Human
Epitope	Extracytoplasmic part of CD71
Immunogen	Leukemia cells

Human Leukocyte Antigens and Associated Molecules

HLA-DR

Clone	MHC class II antigen ML11C11
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic portion of HLA-DR, monomorphic epitope
Immunogen	NHL cells

HLA-DP

Clone	MHC class II antigen HD43
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic portion of HLA-DP, monomorphic epitope
Immunogen	NHL cells

HLA-DQ

Clone	MHC class II antigen HD26
Isotype	Mouse IgG1
Application	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
References	
Relevance	Detection of normal and neoplastic B lymphocytes
Reactivity	Human
Epitope	Extracytoplasmic portion of HLA-DQ, monomorphic epitope
Immunogen	NHL cells

HLA-DM

Clone	MHC class II-associated chaperone DM.K8
Isotype	Mouse IgG1
Application	Western blotting, immunohistology, immunocytology, immunoprecipitation
References	Kropshofer et al. 1996. EMBO J. 15: 6144; Kropshofer et al. 1997. Immunity 6: 293.
Relevance	Studies on antigen loading on MHC classII
Reactivity	Human
Epitope	Intracytoplasmic portion of HLA-DM beta-chain
Immunogen	HLA-DM peptide

Clone	DM.K8/2b
Isotype	Mouse IgG2b, switch variant of DM.K8
Application	Western blotting, immunohistology, immunocytology, immunoprecipitation
References	Kropshofer et al. 1996. EMBO J. 15: 6144; Kropshofer et al. 1997. Immunity 6: 293.
Relevance	Studies on antigen loading on MHC classII
Reactivity	Human
Epitope	Intracytoplasmic portion of HLA-DM beta-chain
Immunogen	HLA-DM peptide

HLA-DO

Clone	Modulator of HLA-DM DOB.L1
Isotype	Mouse IgG2b
Application	Western blotting, immunohistology, immunocytology, immunoprecipitation
References	Kropshofer et al. 1998. EMBO J. 11: 2971.
Relevance	Studies on antigen loading on MHC class II
Reactivity	Human
Epitope	Intracytoplasmic portion of HLA-DO beta-chain
Immunogen	HLA-DO peptide

Epithelial differentiation antigens

CEA

Clone	Carcinoembryonic antigen, Oncofetal antigen
Isotype	HEA19
Application	Mouse IgG1
References	Flow cytometry, immunohistology, immunocytology, immunoprecipitation
Relevance	Möller et al. 1986. Verh. Dtsch. Ges. Path. 70: 116.
Reactivity	Detection of normal and neoplastic epithelial cells
Epitope	Human
Immunogen	Extracytoplasmic part of CEA
	Carcinoma cells

Lewis a,b carbohydrate

Clone	Tumor-associated marker
Isotype	HEA164
Application	Mouse IgM
References	Flow cytometry, immunohistology, immunocytology, immunoprecipitation, Western blotting
Relevance	Möller et al. 1986. Verh. Dtsch. Ges. Path. 70: 116.
Reactivity	Detection of normal and neoplastic epithelial cells
Epitope	Human
Immunogen	Sugar moiety
	Carcinoma cells

Plasminogen activator

Clone	Tumor-associated antigen
Isotype	UK98/6
Application	Mouse IgG1
References	Flow cytometry, immunohistology, immunocytology, immunoprecipitation, Western blotting
Relevance	Schwartz-Albiez et al. 1992. Br. J. Cancer 65: 51.
Reactivity	Typing of tumor cells and tissues
Epitope	Human
Immunogen	Extracytoplasmic part of plasminogen activator
	Carcinoma cells

Therapeutic Antibodies

EpCAMxCD3

Clone	EpCAM is a pan carcinoma antigen and CD3 is a signal transduction molecule on T lymphocytes
Isotype	Hybrid-hybridoma HEA125xOKT3
Application	Mouse IgG1xIgG2a
References	Bispecific antibody for the locoregional treatment of ovarian and mammary cancer
Relevance	Strauß et al. 1999. Clin. Cancer Res. 5 : 171 ;
Reactivity	Marmé et al. 2002. Int. J. Cancer 101 : 183.
Epitope	Human
Immunogen	Extracellular portions of EpCAM and CD3
	No immunogen, fusion of two hybridoma cell lines

EpCAMxCD64

Clone	EpCAM is a pan carcinoma antigen and CD64 is the high affinity receptor for IgG on monocytes, dendritic cells and activated granulocytes
Isotype	Hybrid-hybridoma HEA125x197
Application	Mouse IgG1xIgG2a
References	Bispecific antibody for the locoregional treatment of ovarian and mammary cancer
Relevance	Schweizer et al. 2002. Cancer Immunol. Immunother. 51: 621.
Reactivity	Human
Epitope	Extracellular portions of EpCAM and CD64
Immunogen	No immunogen, fusion of two hybridoma cell lines

CD19xCD3

Clone	CD19 is a pan B lymphocyte antigen and CD3 is a signal transduction molecule on T lymphocytes
Isotype	Hybrid-hybridoma HD37xOKT3
Application	Mouse IgG1xIgG2a
References	Bispecific antibody for the treatment of Non-Hodgkin's lymphomas
Relevance	Csóka et al. 1996. Leukemia 10: 1765 ;
Reactivity	Daniel et al. 1998. Blood 92: 4750.
Epitope	Human
Immunogen	Extracellular portions of CD19 and CD3
	No immunogen, fusion of two hybridoma cell lines

CD19xCD5

Clone	CD19 is a pan B lymphocyte antigen and CD5 is a molecule on mature T lymphocytes
Isotype	Hybrid-hybridoma HD237xHK231
Application	Mouse IgG2axIgG1
References	Bispecific antibody for the treatment of Non-Hodgkin's lymphomas
Relevance	
Reactivity	Human
Epitope	Extracellular portions of CD19 and CD5
Immunogen	No immunogen, fusion of two hybridoma cell lines

Others

Emerin

	Emery-Dreifuss muscular dystrophy / X-linked recessive disorder, gene alias STA
Clone	Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	Nt 59-nt 822 /763 bp, 254 aa fragment, His-tag

Glypican1

	Cell-surface heparin sulphate proteoglycan
Clone	Mouse mAb
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitop	
Immunogen	Peptide, KLH- and BSA-tag

HSC 70

	heat shock constitutive protein 70; mouse mAb
Clone	
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	f.l. protein with 62 aa, c- terminal deleted, His-tag

HSP 70

	heat shock protein 70; mouse mAb
Clone	
Isotype	
Application	
References	
Relevance	
Reactivity	
Epitope	
Immunogen	antigen: f.l. protein, His-tag;

Mac30

	Member of the insulin-like growth factor binding protein family regulating IGF activity (expressed in a broad range of illness)
Clone	Mouse mAb
Isotype	
Application	
References	Kayed H., Kleeff J., Ding J., Hammer J., Giese T., Zentgraf H., Büchler M., Friess H.: Expression analysis of MAC30 in human pancreatic cancer and tumors of the gastrointestinal tract . <i>Histol. Histopathol</i> , <u>19</u> , 1021-1031 (2004)

Relevance
Reactivity
Epitope
Immunogen KLH- and BSA tag

MDR 1

Mdr / P-glycoprotein, member of the ATP-binding cassette (ABC) transporters; mouse mAb

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen antigen: aa 390-685 / mAb1; antigen: aa 1123-1282/ mAb2 His-tag;

Nephrin

Clone
Isotype mouse mAb;
Application
References
Relevance
Reactivity
Epitope
Immunogen antigen: f.l. protein, His-tag;

NMUR-2

neuromedin U receptor 2;

Clone
Isotype mouse mAb
Application
References
Relevance
Reactivity
Epitope
Immunogen antigen: peptide, KLH- and BSA- conjugation;

Nup88

Nucleopurin 88

Clone
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen Aa 1-264, his-tag

NO-145

Karyoskeletal protein, nucleolar cortical skeleton
Mouse mAb

Clone
Isotype
Application
References Kneissel, S., Franke, W.W., Gall, J.G., Heid, H., Reidenbach, S., Schnölzer, M., Spring, H., Zentgraf, H. and Schmidt-Zachmann, M.S.: A Novel Karyoskeletal Protein: Characterization of Protein NO145, the Major Component of Nucleolar Cortical Skeleton in *Xenopus* Oocytes. Mol. Biol. Cell 12, 3904-3918 (2001)

Relevance

Reactivity
Epitope
Immunogen f.l. His-tag

NPHP 3

Nephrocystin 3;
Clone
Isotype mouse mAb
Application
References
Relevance
Reactivity
Epitope
Immunogen antigen: aa 1077 – 1330, His-tag;

NPHP 4

Nephrocystin 4, gene alias: Nephroretinin;
Clone
Isotype mouse mAb
Application
References
Relevance
Reactivity
Epitope
Immunogen antigen: aa 1117 – 1427;
His-tag;

PACS-1

Phophofurin acidic cluster sorting protein
Clone Mouse mAb
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen MBP and GST-tag

PIF

Proteolysis including factor
Clone Mouse mAb
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen KLH, BSA-tag

PODOCIN/ N-term

Clone mouse mAb;
Isotype
Application
References
Relevance
Reactivity
Epitope
Immunogen antigen: aa 1 – 99, His-tag

PODOCIN

Clone
Isotype mouse mAb
Application
References
Relevance
Reactivity
Epitope
Immunogen antigen: aa 285 – 385, His-tag

XNMy

Clone Xenopus laevis nuclear myosin
Isotype Mouse mAb
Application
References
Relevance
Reactivity
Epitope
Immunogen 247aa, Hind III – Hind III fragment / His-tag