

CD44 Monoclonal Antibody (IM7)

Catalog NumberMA1-10225

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Dog, Horse, Cat, Human, Mouse
Host/Isotope	Rat / IgG2b, kappa	Published species	Dog, Pig, Mouse, Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution *1 µg/mL
Clone	IM7	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Immunogen	Dexamethasone-induced cells of the SJL mouse spontaneous myeloid leukemia M1	Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent
Conjugate	Unconjugated	Immunoprecipitation (IP)	Assay-dependent
Form	Liquid	Western Blot (WB)	Assay-dependent
Concentration	1 mg/mL	Immunocytochemistry (ICC/IF)	Assay-dependent
Purification	Protein G	Published Applications	
Storage buffer	PBS, pH 7.4	Immunohistochemistry (IHC)	See 2 publications below
Contains	15mM sodium azide	Flow Cytometry (Flow)	See 20 publications below
Storage Conditions	4° C, do not freeze	Blocking Assay (BLOCK)	See 1 publications below
		Miscellaneous PubMed (Misc)	See 2 publications below
		Immunocytochemistry (ICC/IF)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Western Blot: non-reducing conditions.

Background/Target Information

CD44 cell surface antigen is a 100 kDa type 1 transmembrane glycoprotein widely expressed on human leucocytes, white matter of the brain and by some epithelial cells of the intestine and breast. Several isoforms of CD44 exist, including the predominant CD44H isoform detected in many normal tissues. CD44 is a receptor for hyaluronic acid (HA) and is involved in cell-cell interactions, cell adhesion and migration. CD44 also participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing. CD44 expression may be up-regulated upon some carcinomas, and it has been speculated that this may be related to metastatic potential. CD44 is expressed by hematopoietic, non-hematopoietic cells, epithelial tissues, and to filopodia in cultured keratinocytes. Further, bone marrow myeloid cells and memory T cells express CD44 at high levels, and peripheral B and T cells can upregulate the expression of CD44 in response to certain stimulatory events. Transcripts for the CD44 gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full-length nature of some of these variants have not been determined. Alternative splicing is the basis for the structural and functional diversity of the CD44 protein. Diseases associated with CD44 dysfunction include superficial keratitis and lichen sclerosus. CD44 also may be related to tumor metastasis formation.

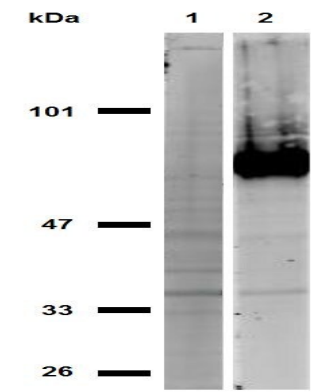
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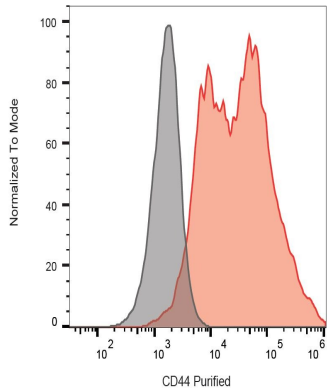
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Product Images For CD44 Monoclonal Antibody (IM7)



CD44 Antibody (MA1-10225) in WB

Western blotting analysis of CD44 in HeLa cells (positive; lane 2) and MOLT-4 cells (negative; lane 1) using anti-CD44 (IM7) purified Monoclonal antibody (Product # MA1-10225); non-reducing conditions.



CD44 Antibody (MA1-10225) in Flow

Separation of murine splenocytes stained using anti-mouse CD44 (IM7) purified Monoclonal antibody (Product # MA1-10225) (concentration in sample 6 µg/mL, DAR APC, red) from murine splenocytes unstained by primary antibody (DAR APC, black) in flow cytometry analysis (surface staining).

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PubMed References For CD44 Monoclonal Antibody (IM7)

2 Immunohistochemistry References

Species / Dilution	Summary
Mouse / Not Cited	MA1-10225 was used in Immunohistochemistry to demonstrate that targeted inhibition of xCT provides tumour-specific sensitisation to radiation therapy.
	Oncotarget (2018; 9: 32280) "xCT inhibition sensitizes tumors to -radiation via glutathione reduction." Author(s):Cobler L,Zhang H,Suri P,Park C,Timmerman LA PubMed Article URL: http://dx.doi.org/10.18632/oncotarget.25794
Mouse / Not Cited	MA1-10225 was used in Immunohistochemistry to study the role of hyaluronan in the regulation of the mechanical properties of pancreatic islets.
	The Journal of biological chemistry (2018; 293: 567) "Hyaluronan content governs tissue stiffness in pancreatic islet inflammation." Author(s):Nagy N,de la Zerda A,Kaber G,Johnson PY,Hu KH,Kratochvil MJ,Yadava K,Zhao W,Cui Y,Navarro G,Annes JP,Wight TN,Heilshorn SC,Bollyky PL,Butte MJ PubMed Article URL: http://dx.doi.org/10.1074/jbc.RA117.000148

20 Flow Cytometry References

Species / Dilution	Summary
Mouse / Not Cited	MA1-10225 was used in flow cytometry to discuss differences in eosinophil degranulation between humans and mice
	American journal of respiratory and critical care medicine (2017; 195: 1321) "Lung Pathologies in a Chronic Inflammation Mouse Model Are Independent of Eosinophil Degranulation." Author(s):Jacobsen EA,Ochkur SI,Doyle AD,LeSuer WE,Li W,Protheroe CA,Colbert D,Zellner KR,Shen HH,Irvin CG,Lee JJ,Lee NA PubMed Article URL: http://dx.doi.org/10.1164/rccm.201606-1129OC
Mouse / Not Cited	MA1-10225 was used in flow cytometry to assess a CD 4 T-cell population during tuberculosis that has memory-like properties maintained by Bcl6 and ICOS-dependent pathways
	The Journal of experimental medicine (2015; 212: 715) "ICOS and Bcl6-dependent pathways maintain a CD4 T cell population with memory-like properties during tuberculosis." Author(s):Moguche AO,Shafiani S,Clemons C,Larson RP,Dinh C,Higdon LE,Cambier CJ,Sissons JR,Gallegos AM,Fink PJ,Urdahl KB PubMed Article URL: http://dx.doi.org/10.1084/jem.20141518
Not Applicable / Not Cited	MA1-10225 was used in flow cytometry to study CD44 and hyaluronic acid interactions
	The Journal of experimental medicine (1992; 175: 257) "Requirements for hyaluronic acid binding by CD44: a role for the cytoplasmic domain and activation by antibody." Author(s):Lesley J,He Q,Miyake K,Hamann A,Hyman R,Kincade PW PubMed Article URL: http://dx.doi.org/10.1084/jem.175.1.257
Mouse / Not Cited	MA1-10225 was used in flow cytometry to establish that autophagy is essential for maintenance of a balanced CD4 positive intestinal T cell response
	eLife (2016; 5:) "The autophagy gene Atg16l1 differentially regulates Treg and TH2 cells to control intestinal inflammation." Author(s):Kabat AM,Harrison OJ,Riffelmacher T,Moghaddam AE,Pearson CF,Laing A,Abeler-Dörner L,Forman SP,Grencis RK,Sattentau Q,Simon AK,Pott J,Maloy KJ PubMed Article URL: http://dx.doi.org/10.7554/eLife.12444
Mouse / Not Cited	MA110225 was used in flow cytometry to evaluate the potential role of the attachment of myristic acid to the N-terminal glycine of proteins on the activation of gamma delta T cells
	Journal of leukocyte biology (2017; 101: 1005) "Deficiency of N-myristoylation reveals calcineurin activity as regulator of IFN--producing T cells." Author(s):Rampoldi F,Brunck F,Bonrouhi M,Federico G,Krunic D,Porubsky S,Gröne HJ,Popovic ZV PubMed Article URL: http://dx.doi.org/10.1189/jlb.1A0616-264R
Mouse / Not Cited	MA110225 was used in flow cytometry to show that ABCA7 regulates natural killer T cell development in a cell-extrinsic manner
	Scientific reports (2017; 7:) "ATP Binding Cassette Transporter ABCA7 Regulates NKT Cell Development and Function by Controlling CD1d Expression and Lipid Raft Content." Author(s):Nowyhed HN,Chandra S,Kiosses W,Marcovecchio P,Andary F,Zhao M,Fitzgerald ML,Kronenberg M,Hedrick CC PubMed Article URL: http://dx.doi.org/10.1038/srep40273

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	MA1-10225 was used in flow cytometry to evaluate the use of biodegradable poly(D,L-lactic-co-glycolic acid) nanoparticles as a vaccine delivery system
Mouse / Not Cited	Journal of biomedical materials research. Part A (2007; 81: 652) "Enhanced antigen-specific primary CD4+ and CD8+ responses by codelivery of ovalbumin and toll-like receptor ligand monophosphoryl lipid A in poly(D,L-lactic-co-glycolic acid) nanoparticles." Author(s):Hamdy S,Elamanchili P,Alshamsan A,Molavi O,Satou T,Samuel J PubMed Article URL: http://dx.doi.org/10.1002/jbm.a.31019
Mouse / Not Cited	MA110225 was used in flow cytometry to use knockout mice to determine if GRK6 contributes to hematopoiesis
Mouse / Not Cited	Cell death & disease (2016; 7:) "GRK6 regulates ROS response and maintains hematopoietic stem cell self-renewal." Author(s):Le Q,Yao W,Chen Y,Yan B,Liu C,Yuan M,Zhou Y,Ma L PubMed Article URL: http://dx.doi.org/10.1038/cddis.2016.377
Mouse / Not Cited	MA1-10225 was used in flow cytometry to show that the PTEN-mTORC2 axis maintains T regulatory cell stability and coordinates their control of effector responses
Mouse / Not Cited	Nature immunology (2015; 16: 178) "Treg cells require the phosphatase PTEN to restrain TH1 and TFH cell responses." Author(s):Shrestha S,Yang K,Guy C,Vogel P,Neale G,Chi H PubMed Article URL: http://dx.doi.org/10.1038/ni.3076
Mouse / Not Cited	MA110225 was used in flow cytometry to explore if the anti-diabetic sulphonylurea glibenclamide protects insulin-producing cells against conditions mimicking those expected at the onset of type 1 diabetes
Mouse / Not Cited	PloS one (2017; 11:) "Glibenclamide Prevents Diabetes in NOD Mice." Author(s):Lamprianou S,Gyseman C,Bou Saab J,Pontes H,Mathieu C,Meda P PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0168839
Mouse / Not Cited	MA1-10225 was used in Flow Cytometry to investigate how epithelial MHCII expression is induced and how a deficiency in inducible epithelial MHCII expression alters susceptibility to colitis and the outcome of colon-specific immune responses.
Mouse / Not Cited	PloS one (2014; 9:) "Interferon- induces expression of MHC class II on intestinal epithelial cells and protects mice from colitis." Author(s):Thelemann C,Eren RO,Coutaz M,Brasseit J,Bouzourene H,Rosa M,Duval A,Lavanchy C,Mack V,Mueller C,Reith W,Acha-Orbea H PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0086844
Mouse / Not Cited	MA1-10225 was used in flow cytometry to determine the roles of c-Myb during lymphocyte development
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2009; 183: 5582) "c-Myb is required for pro-B cell differentiation." Author(s):Fahl SP,Crittenden RB,Allman D,Bender TP PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.0901187
Mouse / Not Cited	MA1-10225 was used in Flow Cytometry to investigate how Bim-dependent apoptosis is initiated in CD8 T cells.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2012; 188: 4256) "CD70-driven costimulation induces survival or Fas-mediated apoptosis of T cells depending on antigenic load." Author(s):Wensveen FM,Unger PP,Kragten NA,Derks IA,ten Brinke A,Arens R,van Lier RA,Eldering E,van Gisbergen KP PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1102889
Mouse / Not Cited	MA110225 was used in flow cytometry to determine that NKG2C/E identifies the CD4 T cell effector subset ThCTL that develop in the lung during influenza A virus infection in mice
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2017; 198: 1142) "NKG2C/E Marks the Unique Cytotoxic CD4 T Cell Subset, ThCTL, Generated by Influenza Infection." Author(s):Marshall NB,Vong AM,Devarajan P,Brauner MD,Kuang Y,Nayar R,Schutten EA,Castonguay CH,Berg LJ,Nutt SL,Swain SL PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1601297
Mouse / Not Cited	MA1-10225 was used in Flow Cytometry to characterise the existence of an inflammatory ILC2 population responsive to interleukin 25 that complements IL-33-responsive natural ILC2 cells.
Mouse / Not Cited	Nature immunology (2015; 16: 161) "IL-25-responsive, lineage-negative KLRG1(hi) cells are multipotential 'inflammatory' type 2 innate lymphoid cells." Author(s):Huang Y,Guo L,Qiu J,Chen X,Hu-Li J,Siebenlist U,Williamson PR,Urban JF,Paul WE PubMed Article URL: http://dx.doi.org/10.1038/ni.3078

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	MA110225 was used in flow cytometry to evaluate miR-29a in B cells as a potential therapeutic target in arthritis
Mouse / Not Cited	Cellular and molecular life sciences : CMLS (2017; 74: 2095) "Defective germinal center B-cell response and reduced arthritic pathology in microRNA-29a-deficient mice." Author(s):van Nieuwenhuijze A,Dooley J,Humblet-Baron S,Sreenivasan J,Koenders M,Schlenner SM,Linterman M,Liston A PubMed Article URL: http://dx.doi.org/10.1007/s00018-017-2456-6
Pig / Not Cited	MA110225 was used in flow cytometry and immunocytochemistry to assess the presence of vitamin D machinery on porcine adipose-derived MSCs Stem cell research & therapy (2016; 7:) "Vitamin D machinery and metabolism in porcine adipose-derived mesenchymal stem cells." Author(s):Valle YL,Almalki SG,Agrawal DK PubMed Article URL: http://dx.doi.org/10.1186/s13287-016-0382-4
Mouse / Not Cited	MA110225 was used in flow cytometry to implement lck-cre transgenic mice to study the role of loxP-targeted genes in T cell development and function Journal of immunology (Baltimore, Md. : 1950) (2016; 197: 2261) "lck-Driven Cre Expression Alters T Cell Development in the Thymus and the Frequencies and Functions of Peripheral T Cell Subsets." Author(s):Carow B,Gao Y,Coquet J,Reilly M,Rottenberg ME PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1600827
Mouse / Not Cited	MA110225 was used in flow cytometry to study how IL-17 and IFN-gamma control Staphylococcus aureus infection The American journal of pathology (2016; 186: 2337) "Collaborative Interferon- and Interleukin-17 Signaling Protects the Oral Mucosa from Staphylococcus aureus." Author(s):Barin JG,Talor MV,Schaub JA,Diny NL,Hou X,Hoyer M,Archer NK,Gebremariam ES,Davis MF,Miller LS,Rose NR,iháková D PubMed Article URL: http://dx.doi.org/10.1016/j.ajpath.2016.07.001
Mouse / Not Cited	MA1-10225 was used in flow cytometry to investigate the role of Rpl22 during early B cell development Journal of immunology (Baltimore, Md. : 1950) (2015; 194: 200) "Rpl22 Loss Impairs the Development of B Lymphocytes by Activating a p53-Dependent Checkpoint." Author(s):Fahl SP,Harris B,Coffey F,Wiest DL PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1402242

1 Blocking Assay References

Species / Dilution	Summary
	MA110225 was used in blocking or activating experiment to implicate myeloid differentiation factor-2 as the high-affinity soluble CD83 binding partner Journal of immunology (Baltimore, Md. : 1950) (2017; 198: 2286) "Soluble CD83 Inhibits T Cell Activation by Binding to the TLR4/MD-2 Complex on CD14⁺ Monocytes." Author(s):Horvatinovich JM,Grogan EW,Norris M,Steinkasserer A,Lemos H,Mellor AL,Tcherepanova IY,Nicolette CA,DeBenedette MA PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1600802
Human / Not Cited	

2 Miscellaneous PubMed References

Species / Dilution	Summary
	MA1-10225 was used in flow cytometry to report two Treg subsets with distinct phenotypes and homeostasis in normal unmanipulated mice.
Mouse / Not Cited	The Journal of experimental medicine (2003; 198: 737) "Continuous activation of autoreactive CD4⁺ CD25⁺ regulatory T cells in the steady state." Author(s):Fisson S,Darrasse-Jèze G,Litvinova E,Septier F,Klatzmann D,Liblau R,Salomon BL PubMed Article URL: http://dx.doi.org/10.1084/jem.20030686
	MA1-10225 was used in flow cytometry to characterize murine tumor-infiltrating lymphocytes. Journal of immunology (Baltimore, Md. : 1950) (2001; 166: 6074) "CD8⁺ tumor-infiltrating lymphocytes are primed for Fas-mediated activation-induced cell death but are not apoptotic in situ." Author(s):Radoja S,Saio M,Frey AB PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.166.10.6074
Mouse / Not Cited	

1 Immunocytochemistry References

Species / Dilution	Summary
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MA1-10225 was used in Immunocytochemistry to report the therapeutic effects of combinatorial use of CD40 and TLR agonists as a cancer vaccine.

Blood (2008; 111: 3116)

"Enhanced efficacy and reduced toxicity of multifactorial adjuvants compared with unitary adjuvants as cancer vaccines."

Author(s): Ahonen CL, Wasiuk A, Fuse S, Turk MJ, Ernstoff MS, Suriawinata AA, Gorham JD, Kedl RM, Usherwood EJ, Noelle RJ

PubMed Article URL: <http://dx.doi.org/10.1182/blood-2007-09-114371>

Mouse / Not Cited

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