

CD44 Monoclonal Antibody (IM7.8.1), PE

Catalog NumberMA5-17880

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2b	Published species	Mouse, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	0.5 µg/1x10^6 cells
Clone	IM7.8.1	Published Applications	
Immunogen	Mouse CD44	Flow Cytometry (Flow)	See 3 publications below
Conjugate	PE	Miscellaneous PubMed (Misc)	See 4 publications below
Form	Liquid	* 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.	
Concentration	0.1 mg/mL		
Purification	Protein G		
Storage buffer	PBS with 4-5mg/mL BSA		
Contains	0.02% sodium azide		
Storage Conditions	4° C, do not freeze		

Background/Target Information

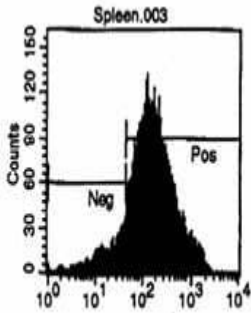
CD44 cell surface antigen is a 100 kDa type 1 transmembrane glycoprotein widely expressed on human leucocytes, white matter of the brain and by some epithelial cells of the intestine and breast. Several isoforms of CD44 exist, including the predominant CD44H isoform detected in many normal tissues. CD44 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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**CD44 Antibody (MA5-17880) in Flow**

Flow cytometric analysis of Spleen Cells staining using anti-CD44/H-CAM Monoclonal Antibody (Product # MA5-17880) at a 0.5 µg/10<sup>6</sup> cells dilution. The Isotypic control was a PE Rat IgG2b

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PubMed References For CD44 Monoclonal Antibody (IM7.8.1), PE

3 Flow Cytometry References

Species / Dilution	Summary
Not Applicable / Not Cited	MA5-17880 was used in flow cytometry to elucidate whether UVB exposure inhibits the expansion of effector CD4+ and CD8+ T cells in skin-draining lymph nodes and reduces the number of CD4+ and IFN-gamma+ CD8+ T cells at sites of challenge  The American journal of pathology ( 2008; 172: 993) <b>"Ultraviolet B suppresses immunity by inhibiting effector and memory T cells."</b> Author(s):Rana S,Byrne SN,MacDonald LJ,Chan CY,Halliday GM PubMed Article URL: <a href="http://dx.doi.org/10.2353/ajpath.2008.070517">http://dx.doi.org/10.2353/ajpath.2008.070517</a>
Mouse / Not Cited	MA5-17881 was used in Flow Cytometry to describe a novel form of homeostatic proliferation that occurs when naive T cells encounter raised levels of IL-2 and IL-15 in vivo.  The Journal of experimental medicine ( 2007; 204: 1787) <b>"An intense form of homeostatic proliferation of naive CD8+ cells driven by IL-2."</b> Author(s):Cho JH,Boyman O,Kim HO,Hahm B,Rubinstein MP,Ramsey C,Kim DM,Surh CD,Sprent J PubMed Article URL: <a href="http://dx.doi.org/10.1084/jem.20070740">http://dx.doi.org/10.1084/jem.20070740</a>
Not Applicable / Not Cited	MA5-17880 was used in flow cytometry to investigate the effect of Stat6 in T cell expansion, survival, and recruitment to the lung  Journal of immunology (Baltimore, Md. : 1950) ( 2008; 180: 754) <b>"Accumulation of effector CD4 T cells during type 2 immune responses is negatively regulated by Stat6."</b> Author(s):King SB,Knorn AM,Ohnmacht C,Voehringer D PubMed Article URL: <a href="http://dx.doi.org/10.4049/jimmunol.180.2.754">http://dx.doi.org/10.4049/jimmunol.180.2.754</a>

4 Miscellaneous PubMed References

Species / Dilution	Summary
Mouse / Not Cited	MA5-17880 was used in flow cytometry to test if T-cell-specific expression of p300 alters GR-TCR cross talk between thymocytes.  Molecular and cellular biology ( 2002; 22: 4556) <b>"Increased p300 expression inhibits glucocorticoid receptor-T-cell receptor antagonism but does not affect thymocyte positive selection."</b> Author(s):Yu CT,Feng MH,Shih HM,Lai MZ PubMed Article URL: <a href="http://dx.doi.org/10.1128/MCB.22.13.4556-4566.2002">http://dx.doi.org/10.1128/MCB.22.13.4556-4566.2002</a>
Mouse / Not Cited	MA5-17880 was used in flow cytometry to suggest that p38 is involved in positive selection of T cells.  Blood ( 2003; 101: 970) <b>"Involvement of p38 mitogen-activated protein kinase in different stages of thymocyte development."</b> Author(s):Hsu SC,Wu CC,Han J,Lai MZ PubMed Article URL: <a href="http://dx.doi.org/10.1182/blood-2002-03-0744">http://dx.doi.org/10.1182/blood-2002-03-0744</a>
Mouse / Not Cited	MA5-17880 was used in flow cytometry to identify the initial source of IL-4 in early immune responses.  International immunology ( 1998; 10: 1017) <b>"Induction of Th2 cell differentiation in the primary immune response: dendritic cells isolated from adherent cell culture treated with IL-10 prime naive CD4+ T cells to secrete IL-4."</b> Author(s):Liu L,Rich BE,Inobe J,Chen W,Weiner HL PubMed Article URL: <a href="http://dx.doi.org/10.1093/intimm/10.8.1017">http://dx.doi.org/10.1093/intimm/10.8.1017</a>
Mouse / Not Cited	MA5-17880 was used in flow cytometry to describe a clonal system that supports the development of T and natural killer cells evenly.  The Journal of experimental medicine ( 1999; 190: 1617) <b>"Commitment of common T/Natural killer (NK) progenitors to unipotent T and NK progenitors in the murine fetal thymus revealed by a single progenitor assay."</b> Author(s):Ikawa T,Kawamoto H,Fujimoto S,Katsura Y PubMed Article URL: <a href="http://dx.doi.org/10.1084/jem.190.11.1617">http://dx.doi.org/10.1084/jem.190.11.1617</a>

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