

CD90 Monoclonal Antibody (5a-8), Biotin

Catalog NumberMA5-17746

Product data sheet

Details		Species Reactivity	
Size	300 µg	Species reactivity	Mouse
Host/Isotope	Mouse / IgG2b	Published species	Mouse, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	1.0 µg/1x10^6 cells
Clone	5a-8	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Immunogen	CBA/J	Published Applications	
Conjugate	Biotin	Miscellaneous PubMed (Misc)	See 8 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	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Background/Target Information

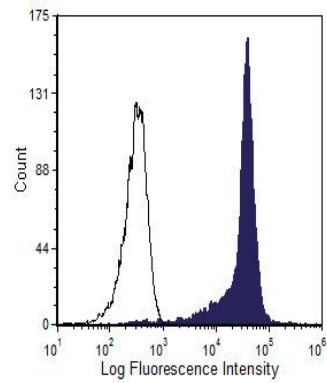
CD90 (Thy 1) antigen is a GPI linked glycoprotein member of the Immunoglobulin super family. CD90 is expressed in murine T cells, thymocytes, neural cells, Kupffer's cells and fibroblasts. CD90 may play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain. CD90 can be used as a marker for a variety of stem cells and for the axonal processes of mature neurons. Structural study of CD90 led to the foundation of the Immunoglobulin superfamily, of which it is the smallest member, and led to the first biochemical description and characterization of a vertebrate GPI anchor. Diseases associated with CD90 dysfunction include nasopharyngeal carcinoma and thymoma.

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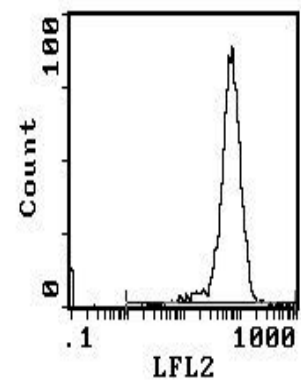
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CD90 Antibody (MA5-17746) in Flow

Flow cytometric analysis of Balb/c mouse thymocytes stained using a CD90/Thy-1 monoclonal antibody (Product # MA5-17745) (filled histogram) or mouse IgG2b isotype control (open histogram).



CD90 Antibody (MA5-17746) in Flow

Flow cytometric analysis of Thymus cells stained using anti-CD90/Thy-1 Monoclonal Antibody (Product # MA5-17745) at a 1.0 µg/10^6 cells dilution.

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PubMed References For CD90 Monoclonal Antibody (5a-8), Biotin

8 Miscellaneous PubMed References

Species / Dilution	Summary
Mouse / Not Cited	MA5-17745 was used in flow cytometry to identify progenitors that can result in T cells via an extrathymic pathway.
	Proceedings of the National Academy of Sciences of the United States of America (2001; 98: 7455) "Clonable progenitors committed to the T lymphocyte lineage in the mouse bone marrow; use of an extrathymic pathway." Author(s):Dejbakhsh-Jones S,Garcia-Ojeda ME,Chatterjea-Matthes D,Zeng D,Strober S PubMed Article URL: http://dx.doi.org/10.1073/pnas.131559798
	MA5-17745 was used in flow cytometry to develop a nonmyeloablative host conditioning regimen for transplantation.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2001; 167: 2087) "Predominance of NK1.1+TCR alpha beta+ or DX5+TCR alpha beta+ T cells in mice conditioned with fractionated lymphoid irradiation protects against graft-versus-host disease: "natural suppressor" cells." Author(s):Lan F,Zeng D,Higuchi M,Huie P,Higgins JP,Strober S PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.167.4.2087
	MA5-17745 was used in flow cytometry to identify a rare population of cells in the adult mouse bone marrow that generates CD4(+) and CD8(+) TCRalphabeta(+) T cells.
Mouse / Not Cited	Proceedings of the National Academy of Sciences of the United States of America (1999; 96: 14493) "Identification of an early T cell progenitor for a pathway of T cell maturation in the bone marrow." Author(s):Dejbakhsh-Jones S,Strober S PubMed Article URL: http://dx.doi.org/10.1073/pnas.96.25.14493
	MA5-17745 was used in flow cytometry to investigate the fate of autoreactive B cells in lpr/lpr mice.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (1994; 153: 2831) "Effects of the lpr mutation on elimination and inactivation of self-reactive B cells." Author(s):Rathmell JC,Goodnow CC PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/8077685
	MA5-17745 was used in flow cytometry to report that the balance of donor-type CD4(+)CD25(+) T(reg) and conventional CD4(+)CD25(-) T cells determines the outcome of acute graft-versus-host disease.
Mouse / Not Cited	The Journal of experimental medicine (2002; 196: 389) "Donor-type CD4(+)CD25(+) regulatory T cells suppress lethal acute graft-versus-host disease after allogeneic bone marrow transplantation." Author(s):Hoffmann P,Ermann J,Edinger M,Fathman CG,Strober S PubMed Article URL: http://dx.doi.org/10.1084/jem.20020399
	MA5-17745 was used in flow cytometry to examine early T cell progenitor development in the nu/nu bone marrow.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2003; 171: 1207) "Early defect prethymic in bone marrow T cell progenitors in athymic nu/nu mice." Author(s):Chatterjea-Matthes D,Garcia-Ojeda ME,Dejbakhsh-Jones S,Jerabek L,Manz MG,Weissman IL,Strober S PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.171.3.1207
	MA5-17745 was used in flow cytometry to test if specific subsets of cells in allogeneic bone marrow transplants can treat the BCL(1) B-cell lymphoma without inducing graft verses host disease.
Mouse / Not Cited	Blood (2001; 97: 3458) "Allogeneic bone marrow cells that facilitate complete chimerism and eliminate tumor cells express both CD8 and T-cell antigen receptor-alphabeta." Author(s):Lan F,Zeng D,Huie P,Higgins JP,Strober S PubMed Article URL: http://dx.doi.org/10.1182/blood.v97.11.3458
	MA5-17745 was used to conclude that bone marrow committed T cell progenitors can generate functional T cells via an extrathymic pathway
Not Applicable / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2005; 175: 4363) "Stepwise development of committed progenitors in the bone marrow that generate functional T cells in the absence of the thymus." Author(s):Garcia-Ojeda ME,Dejbakhsh-Jones S,Chatterjea-Matthes D,Mukhopadhyay A,BitMansour A,Weissman IL, Brown JM,Strober S PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.175.7.4363

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