

CD90 Monoclonal Antibody (5a-8), PE

Catalog NumberMA5-17749

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Mouse
Host/Isotope	Mouse / IgG2b, kappa	Published species	Mouse, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	1.0 µg/1x10^6 cells
Clone	5a-8	Published Applications	
Immunogen	CBA/J	Flow Cytometry (Flow)	See 1 publications below
Conjugate	PE	Miscellaneous PubMed (Misc)	See 3 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**

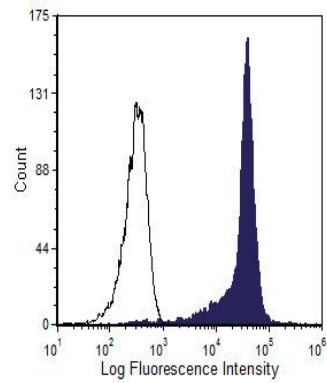
CD90 (Thy 1) antigen is a GPI linked glycoprotein member of the Immunoglobulin super family. CD90 is expressed in murine T cells, thymocytes, neural cells, Kupffer's cells and fibroblasts. CD90 may play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain. 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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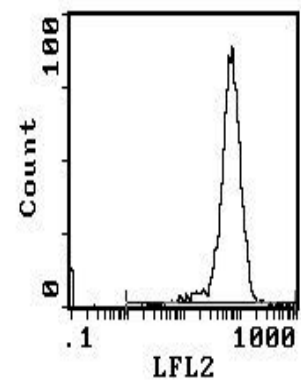
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**CD90 Antibody (MA5-17749) in Flow**

Flow cytometric analysis of Balb/c mouse thymocytes stained using a CD90/Thy-1 monoclonal antibody (Product # MA5-17749) (filled histogram) or mouse IgG2b isotype control (open histogram).



**CD90 Antibody (MA5-17749) in Flow**

Flow cytometric analysis of Thymus cells stained using anti-CD90/Thy-1 Monoclonal Antibody (Product # MA5-17749) at a  $1.0 \mu\text{g}/10^6$  cells dilution.

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

1 Flow Cytometry References

Species / Dilution	Summary
	MA5-17749 was used in flow cytometry to investigate the role of B cells in Sjogren's syndrome in a mouse model
Not Applicable / Not Cited	Immunology ( 2007; 122: 73) <b>"B-lymphocyte depletion ameliorates Sjögren's syndrome in Id3 knockout mice."</b> Author(s):Hayakawa I,Tedder TF,Zhuang Y PubMed Article URL: <a href="http://dx.doi.org/10.1111/j.1365-2567.2007.02614.x">http://dx.doi.org/10.1111/j.1365-2567.2007.02614.x</a>

3 Miscellaneous PubMed References

Species / Dilution	Summary
	MA5-17749 was used in flow cytometry to investigate the aorta-gonad-mesonephros region as a source of hemopoietic progenitors.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) ( 1999; 163: 4788) <b>"Emergence of T, B, and myeloid lineage-committed as well as multipotent hemopoietic progenitors in the aorta-gonad-mesonephros region of day 10 fetuses of the mouse."</b> Author(s):Ohmura K,Kawamoto H,Fujimoto S,Ozaki S,Nakao K,Katsura Y PubMed Article URL: <a href="http://www.ncbi.nlm.nih.gov/pubmed/10528178">http://www.ncbi.nlm.nih.gov/pubmed/10528178</a>
	MA5-17749 was used in flow cytometry to examine multipotent progenitors from early fetuses.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) ( 2001; 166: 3290) <b>"Immature multipotent hemopoietic progenitors lacking long-term bone marrow-reconstituting activity in the aorta-gonad-mesonephros region of murine day 10 fetuses."</b> Author(s):Ohmura K,Kawamoto H,Lu M,Ikawa T,Ozaki S,Nakao K,Katsura Y PubMed Article URL: <a href="http://dx.doi.org/10.4049/jimmunol.166.5.3290">http://dx.doi.org/10.4049/jimmunol.166.5.3290</a>
	MA5-17749 was used in flow cytometry to describe a clonal system that supports the development of T and natural killer cells evenly.
Mouse / Not Cited	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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