

CD5 Monoclonal Antibody (CG16)

Catalog NumberMA1-70072

Product data sheet

Details		Species Reactivity	
Size	250 µg	Species reactivity	Mouse
Host/Isotope	Mouse / IgG2b	Published species	Mouse
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	1 µg/1 million cells
Clone	CG16	Published Applications	
Immunogen	C3H.CE - Ly 1.2: DS.	Miscellaneous PubMed (Misc)	See 3 publications below
Conjugate	Unconjugated	* 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.	
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

MA1-70072 detects CD5 in mouse samples. MA1-70072 has been successfully used in flow cytometry procedures. The MA1-70072 immunogen is C3H.CE - Ly 1.2 : DS.

Background/Target Information

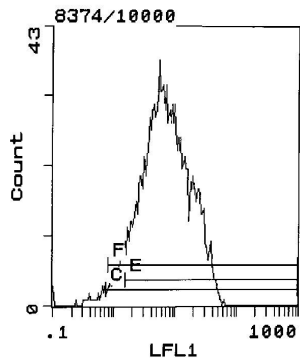
CD5 is a 67 kDa human T-lymphocyte single-chain transmembrane glycoprotein. CD5 is present on all mature T-lymphocytes, on most of thymocytes and on many T-cell leukemias and lymphomas. CD5 also reacts with a subpopulation of activated B-cells and may act as a receptor in regulating T-cell proliferation. CD5 is found on 95% of thymocytes and 72% of peripheral blood lymphocytes. In lymph nodes, the main reactivity is observed in T cell areas. CD5 is expressed by many T cell leukemia, lymphomas, and activated T cells. Diseases associated with CD5 dysfunction include thymus cancer and Richter's Syndrome.

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CD5 Antibody (MA1-70072) in Flow

Flow cytometric analysis of thymus cells stained using a CD5/Ly-1 monoclonal antibody (Product # MA1-70072) at a 0.1 µg/10<sup>6</sup> cells dilution. The isotype control was a biotin mouse IgG2b, kappa

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PubMed References For CD5 Monoclonal Antibody (CG16)

3 Miscellaneous PubMed References

Species / Dilution	Summary
	MA1-70072 was used in flow cytometry to suggest that p38 is involved in positive selection of T cells.
Mouse / Not Cited	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>
	MA1-70072 was used in flow cytometry to test if T-cell-specific expression of p300 alters GR-TCR cross talk between thymocytes.
Mouse / Not Cited	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>
	MA1-70072 was used in flow cytometry to demonstrate that the Ras/Raf/MAPK pathway is constitutively activated in Ick-transformed immature thymoblasts.
Mouse / Not Cited	International immunology ( 1997; 9: 291) <b>"Targets of p56(lck) activity in immature thymoblasts: stimulation of the Ras/Raf/MAPK pathway."</b> Author(s):Lin K,Abraham KM PubMed Article URL: <a href="http://dx.doi.org/10.1093/intimm/9.2.291">http://dx.doi.org/10.1093/intimm/9.2.291</a>

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