

CD7 Monoclonal Antibody (MG34), FITC

Catalog NumberMA1-12024

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG2a	Tested Applications	
Class	Monoclonal	Dilution *	
Type	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	MG34	* 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.	
Immunogen	T-acute lymphoblastic leukemia (T-ALL) cells		
Conjugate	FITC		
Form	Liquid		
Concentration	0.02 mg/mL		
Purification	Protein A/G		
Storage buffer	PBS with 0.2% carrier protein		
Contains	0.08% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Background/Target Information

CD7 (gp40, Leu9) is a 40 kDa member of the immunoglobulin gene superfamily. CD7 contains N-terminal amino acids 1-107 are highly homologous to Ig kappa-L chains whereas the carboxy-terminal region of the extracellular domain is proline-rich and has been postulated to form a stalk from which the Ig domain projects. CD7 is expressed on the majority of immature and mature T-lymphocytes, and T cell leukemia. Further, CD7 is also found on natural killer cells, a small subpopulation of normal B cells and on malignant B cells. Cross-linking surface CD7 positively modulates T cell and NK cell activity as measured by calcium fluxes, expression of adhesion molecules, cytokine secretion and proliferation. CD7 associates directly with phosphoinositol 3'-kinase. CD7 ligation induces production of D-3 phosphoinositides and tyrosine phosphorylation. Expression of CD7 is an important marker used in leukemia diagnostics.

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