

CD45RB Monoclonal Antibody (MEM-55), FITC

Catalog Number

MA1-19571

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human, Non-human primate
Host/Isotope	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody	Flow Cytometry (Flow)	20 µL/1x10^6 cells
Clone	MEM-55	* 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	Human thymocytes and T lymphocytes.		
Conjugate	FITC		
Form	Liquid		
Purification	Size-exclusion chromatography		
Storage buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	15mM sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

This antibody recognizes a siliadase-sensitive epitope of CD45RB, a 180-240 kDa single chain type I membrane glycoprotein, variant of CD45 (CD45RB isoform).

Background/Target Information

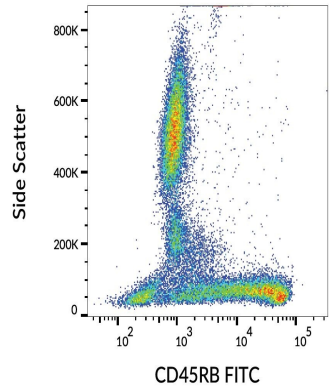
CD45RB is a receptor-type protein tyrosine phosphatase, CD45 glycoprotein. CD45 is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45 isoforms differ in their extracellular domains, but share identical transmembrane and cytoplasmic domains. CD45 isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. CD45RB is expressed in microglia and inflammatory cells. In addition to involvement in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is involved in DNA fragmentation during apoptosis. CD45 is expressed on cells of the human hematopoietic lineage with the exception of mature red cells.

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**CD45RB Antibody (MA1-19571) in Flow**

Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD45RB (MEM-55) FITC Monoclonal antibody (Product # MA1-19571).

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