

## Product datasheet for **SM1115B**

### CD45 (PTPRC) (CD45RA) Mouse Monoclonal Antibody [Clone ID: MEM-56]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-56
Applications:	FC
Recommended Dilution:	Flow cytometry (1/120).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human thymocytes and T lymphocytes
Specificity:	The antibody reacts with CD45RA, a 205-220 kDa single chain type I glycoprotein, variant of CD45 (CD45RA isoform). CD45RA is expressed on most of B lymphocytes, resting and native T lymphocytes, medullar thymocytes and monocytes.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 Label: Biotin State: Liquid purified Ig fraction Label: Conjugated with -LC-NHS under optimum conditions. The reagent is free of unconjugated biotin
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2 - 8 °C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	<a href="#">Entrez Gene 5788 Human P08575</a>



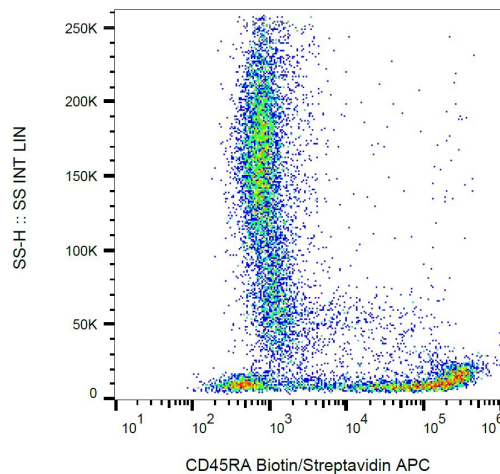
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**Background:**

CD45RA is a high molecular weight isoform of 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, whereas they share identical transmembrane and cytoplasmic domains. These 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. CD45RA is expressed e.g. on nave T cells and normal plasma cells.

**Synonyms:**

PTPRC, Leukocyte common antigen, L-CA, T200

**Product images:**

Surface staining of human peripheral blood with anti-CD45RA (MEM-56) biotin / streptavidin-APC.