

Product datasheet for **SM1115PP**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-56
Applications:	FC, WB
Recommended Dilution:	Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human thymocytes and T lymphocytes
Specificity:	This 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) Label: PerCP State: Liquid Ig purified fraction Stabilizer: 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) Preservative: 15 mM sodium azide Label: Conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Conjugation:	PerCP
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	Entrez Gene 5788 Human P08575



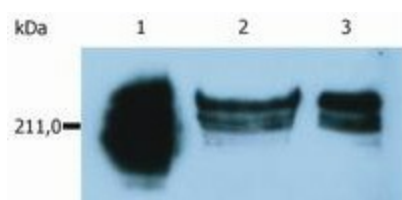
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Background:

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 naive T cells and normal plasma cells.

Synonyms:

PTPRC, Leukocyte common antigen, L-CA, T200

Product images:

Western Blotting analysis of whole cell lysate of HUT-78 human cutaneous T cell lymphoma cell line. Lane 1: immunostaining with anti-human CD45 control antibody Lane 2: immunostaining with anti-human CD45RA (MEM-56); sample of cell lysate prepared under non-reducing conditions Lane 3: immunostaining with anti-human CD45RA (MEM-56); sample of cell lysate prepared under reducing conditions