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9F, No. 108, Jhouzih St.,Taipei, Taiwan Tel: + 886-2-8751-1888 Fax: + 886-2-6602-1218 E-mail: sales@abnova.com

Datasheet

CD45RA monoclonal antibody, clone MEM-56 (PE)

Catalog Number: MAB4627

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD45RA.

Clone Name: MEM-56

Immunogen: Native purified CD45RA from human thymocytes and T lymphocytes.

Host: Mouse

Theoretical MW (kDa): 205-220

Reactivity: Human

Applications: Flow Cyt (See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

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.

Form: Liquid

Conjugation: PE

Isotype: IgG2b

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension)

The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.2% BSA, 0.09% sodium azide)

Storage Instruction: Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.

Entrez GenelD: 5788

Gene Symbol: PTPRC

Gene Alias: B220, CD45, CD45R, GP180, LCA, LY5, T200

Gene Summary: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq]

References:

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Collagen-mediated survival signaling is modulated by CD45 in Jurkat T cells. Bijian K, Zhang L, Shen SH. Mol Immunol. 2007 Jul;44(15):3682-90. Epub 2007 May 23.
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