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Purified Mouse Anti-CD45RB Monoclonal Antibody

CLX50AP

Lot:

Size: 0.1 mg

Clone: MEM-55

Isotype: Mouse IgG1

Specificity: The antibody MEM-55 recognizes a sialidase-sensitive epitope of CD45RB, a 180-240 kDa single chain type I membrane glycoprotein, variant of CD45 (CD45RB isoform). CD45RB is expressed on a subset of T lymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells.

HLDA III; WS Code NL 358

HLDA IV; WS Code NL 2

HLDA V; WS Code T T-151

HLDA V; WS Code T T-CD45.08

Immunogen: Human thymocytes and T lymphocytes.

Species Reactivity: Human, Non-Human Primates

Application: **Flow Cytometry**
Immunoprecipitation
Western Blotting
Immunohistochemistry (paraffin sections)
No pre-treatment of tissue sections is essential.

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by protein-A affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Continued...

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Background:

CD45RB is an of a receptor-type protein tyrosine phosphatase, CD45 glycoprotein. CD45 is crucial in lymphocyte development and antigen signalling, 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. CD45isoforms 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. CD45RB is expressed e.g. in microglia and inflammatory cells.

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