

A7-223-T100

Monoclonal Antibody to CD45RA Alexa Fluor® 700 conjugated (100 tests)

Clone: MEM-56

Isotype: Mouse IgG2b

Specificity: The antibody MEM-56 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.

HLDA IV; WS Code NL 907

Immunogen: Human thymocytes and T lymphocytes.

Species Reactivity: Human

Preparation: The purified antibody is conjugated with Alexa Fluor 700 under optimum conditions. The

conjugate is purified by size-exclusion chromatography and adjusted for direct use. No

reconstitution is necessary.

Storage Buffer: The reagent is provided in phosphate buffered saline (PBS) containing 15 mM sodium azide

and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing

agent.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Do not use after expiration date stamped on vial label.

Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions

must be verified by the user.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 4 μ l

reagent / 100 μl of whole blood or 10⁶ cells in a suspension.

The content of a vial (0.4 ml) is sufficient for 100 tests.

Expiration: See vial label

Lot Number: See vial label

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.



PRODUCT DATA SHEET

References:

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