

**Catalog#** Cd45RAP-100 **Size** 100 tests  
**Catalog#** Cd45RAP-25 **Size** 25 tests

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**Mouse Anti-Human CD45RA-PE conjugate**

**PRODUCT INFORMATION**

**CLONE:** HI100  
**ISOTYPE:** Mouse IgG2a, κ  
**WS.No.:** IV N906  
**Product Forms:** Purified, FITC conjugation, PE conjugation.  
**SIZE:** 25 Tests

**DESCRIPTION**

CD45RA McAb recognizes the 205/220KD isoform of leukocyte common antigens expressed on about 40-50% of peripheral CD4<sup>+</sup> T cells, 50% of peripheral CD8<sup>+</sup> T cells and on a portion of B cells and monocytes. Studies have shown that expression of different isoform is characteristic of differentiated subset of hematopoietic cells (for instance CD45RA on naïve/ resting T cells and CD45RD on memory/ activated T cells; CD45RA on medullary thymocytes and CD45RD on cortical thymocytes). It is also reported that the pattern of 87% of B-ALL is CD45RA<sup>+</sup>/ CD45RO<sup>-</sup>, 70% of T-ALL is CD45RA<sup>-</sup>/ CD45RD<sup>+</sup> and 78% of B-ALL is CD45RA<sup>+</sup>/ CD45RO<sup>+</sup>.

**PREPARATION**

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with FITC, R-PE under optimum conditions.

**USAGE**

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis and is tested for immunohistochemical staining of acetone-fixed frozen sections and formalin-fixed paraffin sections.

The conjugated reagent (FITC, R-PE) is tested for flow cytometric analysis using 20µl/10<sup>6</sup> cells or 100µl peripheral blood cells.

**STORAGE**

For purified forms, long term storage at -20°C.

For conjugated forms, storage at 4°C, should not be frozen and avoid prolonged exposure to light.

**REFERENCES**

1. Shen DC., Chen Z., Bai JF., et al., 1991. Properties and preliminary application of three monoclonal antibodies of non-lineage antigens-CD45, CD45R and CD53. J. Monoclonal Antibody. 7(1):53
2. Knapp W., B.Dorken, E.P.Rieber, et al., eds. 1989. Leucocyte Typing □: White Cell Differentiation Antigens. P 631 Oxford University Press, New York.
3. Tadimitsu K, K.Hitoshi, A.E.G.Kr.van dem Borne, et al., eds. 1997. Leucocyte Typing □: White Cell Differentiation Antigens. P: 500—501, 1144 Garland Publishing, Inc., New York.

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