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30-2564: Anti-Human CD45 PerCP (Clone : 2D1)

Clonality :	Monoclonal
Clone Name :	2D1
Application :	FACS
Reactivity :	Human
Conjugate :	PerCP
Gene :	PTPRC
Gene ID :	5788
Alternative Name :	LCA, T200, LY5, B220, GP180, TPC,protein tyrosine phosphatase receptor type C
Isotype :	Mouse IgG1 kappa
Immunogen Information :	Human peripheral blood mononuclear cells

Description

CD45 (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10% of all surface proteins in lymphocytes. CD45 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases. CD45 protein exists as multiple isoforms as a result of alternative splicing; these 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. Besides the role in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis.
Specificity : The mouse monoclonal antibody 2D1 reacts with an extracellular epitope of all alternative forms of human CD45 antigen (Leukocyte Common Antigen), a 180-220 kDa single chain type I transmembrane protein expressed at high level on all cells of hematopoietic origin, except from erythrocytes and platelets.

Product Info

Amount :	100 tests
Purification :	The purified antibody is conjugated with PerCP under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 ÃÂµl reagent / 100 ÃÂµl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

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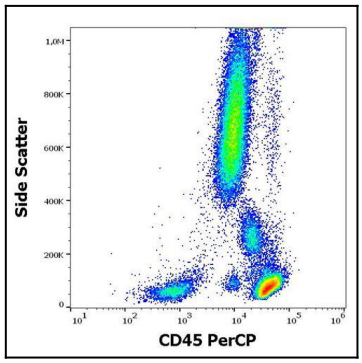


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD45 (2D1) PerCP antibody (10 µl reagent / 100 µl of peripheral whole blood).

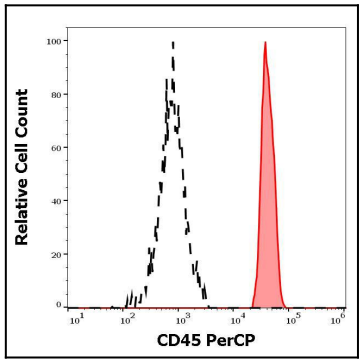


Figure 2 : Separation of human CD45 positive lymphocytes (red-filled) from human CD45 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD45 (2D1) PerCP antibody (10 µl reagent / 100 µl of peripheral whole blood).

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