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## **30-2633: Anti-Human CD172ab PE (Clone : SE5A5)**

Clonality: Monoclonal
Clone Name: SE5A5
Application: FACS
Reactivity: Human
Conjugate: PE

Alternative Name: PTPNS1, BIT, MFR, SIRPA, SHPS1, SIRPB1

**Isotype:** Mouse IgG1

Immunogen Information: NIH-3T3 / human CD172a cell line

## **Description**

CD172a, the signal-regulatory protein alpha (SIRP alpha), also known as SH2 domain-containing phosphatase substrate-1 (SHPS1), is a 75-110 kDa transmembrane glycoprotein expressed mainly on granulocytes, monocytes, macrophages, dendritic cells and neurons. Its extracellular ligand is CD47. CD172a serves as a substrate of activated receptor tyrosine kinases and upon phosphorylation it recruits SH2 domain-containing tyrosine phosphatases, thereby regulating signal transduction processes related to cell activation, transmigration and phagocytosis. CD172a is a specific marker of cardiomyocytes derived from human pluripotent stem cells and serves as a negative regulator of signaling and growth in myeloid progenitor cells. Extracellular part of CD172b is 90% identical to that of CD172a, but unlike CD172, it has dramatically reduced intracellular domain.

Specificity: The mouse monoclonal antibody SE5A5 recognizes a common extracellular epitope on human CD172a and CD172b antigens (approx. 90 kDa and approx. 50 kDa, respectively), although its reactivity with CD172a is higher.

## **Product Info**

Amount: 100 tests

Purification: The purified antibody is conjugated with R-phycoerythrin (PE) 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  $\text{Å}\mu\text{l}$  reagent / 100  $\text{Å}\mu\text{l}$  of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

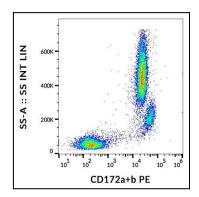


Figure 1 : Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-human CD172a/b (SE5A5) PE.