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30-2888: Anti-Hu CD172a APC Mab (Clone: 15-414)

Clonality: Monoclonal **Clone Name:** 15-414 **FACS** Application: Reactivity: Human Conjugate: APC Gene: **SIRPA** Gene ID: 140885 **Uniprot ID:** P78324

Alternative Name: signal regulatory protein alpha, PTPNS1, BIT, MFR, SIRPA, SHPS1

Isotype: Mouse IgG2a **Immunogen Information:** Kg-1a cell line

Description

Specificity: The mouse monoclonal antibody 15-414 recognizes en extracellular epitope of CD172a (SIRP alpha), an approximately 90 kDa transmembrane glycoprotein expressed on cells of myeloid origin and neurons.

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.

Product Info

Amount: 100 tests (T100)

Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions

Purification: and unconjugated antibody and free fluorochrome are removed by size-exclusion

chromatography.

Content: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide **Storage condition:** Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 μ l reagent / 100 μ l of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.



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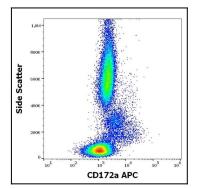


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD172a (15-414) APC antibody (10 $\hat{1}\frac{1}{4}$ reagent / 100 $\hat{1}\frac{1}{4}$ of peripheral whole blood).

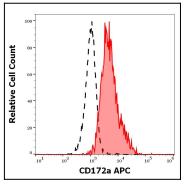


Figure 2: Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD172a (15-414) APC antibody (10 \hat{l} ½l reagent / 100 \hat{l} ½l of peripheral whole blood).