

Datasheet for ABIN7505867
anti-SIRPA antibody (APC)

2 Images

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Overview

Quantity:	100 tests
Target:	SIRPA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SIRPA antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD172a APC
Immunogen:	Kg-1a cell line
Clone:	15-414
Isotype:	IgG2a
Specificity:	The mouse monoclonal antibody 15-414 recognizes an extracellular epitope of CD172a (SIRP alpha), an approximately 90 kDa transmembrane glycoprotein expressed on cells of myeloid origin and neurons.
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

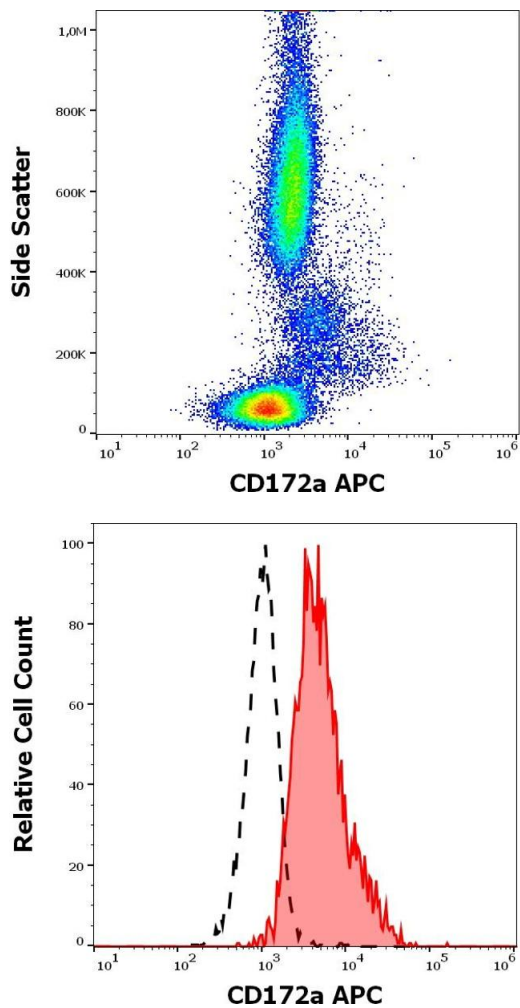
Target:	SIRPA
Alternative Name:	CD172a (SIRPA Products)
Background:	Signal regulatory protein alpha,CD172a, the signal-regulatory protein alpha (SIRP alpha), also known as SH2 domain-containing phosphatase substrate-1 (SHPS1), is a 75-110 kDa transmembrane glycoprotein expressed mainly on granulocytes, 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.,PTPNS1, BIT, MFR, SIRPA, SHPS1
Gene ID:	140885
UniProt:	P78324

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD172a (15-414) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 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 µL reagent / 100 µL of peripheral whole blood).