

### 30-2634: Anti-Human CD172a Antibody (Clone : 15-414)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	15-414
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	SIRPA
<b>Gene ID :</b>	140885
<b>Format :</b>	Purified
<b>Alternative Name :</b>	PTPNS1, BIT, MFR, SIRPA, SHPS1, signal regulatory protein alpha
<b>Isotype :</b>	Mouse IgG2a
<b>Immunogen Information :</b>	Kg-1a 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.

**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.

#### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Content :</b>	1 mg/ml Formulation : Phosphate buffered saline (PBS) solution with 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

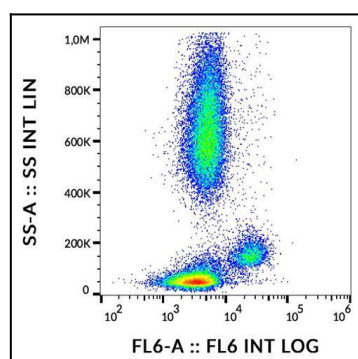


Figure 1 : Flow cytometry analysis (surface staining) of human peripheral blood cells using anti-CD172a (15-414) purified, GAM-APC.