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

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| **Clonality :** | Monoclonal |
| **Clone Name :** | 15-414 |
| **Application :** | FACS |
| **Reactivity :** | Human |
| **Gene :** | SIRPA |
| **Gene ID :** | 140885 |
| **Format :** | Purified |
| **Alternative Name :** | PTPNS1, BIT, MFR, SIRPA, SHPS1,signal regulatory protein alpha |
| **Isotype :** | Mouse IgG2a |
| **Immunogen Information :** | 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 en extracellular epitope of CD172a (SIRP alpha), an approximately 90 kDa transmembrane glycoprotein expressed on cells of myeloid origin and neurons.

## Product Info

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

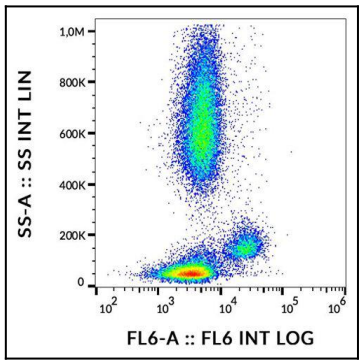


Figure 1 : Flow cytometry analysis (surface staining) of human peripheral blood cells using anti-CD172a (15-414) purified, GAM-APC.