∗ abeomics

30-2632: Anti-Human CD172ab Antibody (Clone : SE5A5)

| Clonality : | Monoclonal |
|-------------------------|--|
| Clone Name : | SE5A5 |
| Application : | FACS |
| Reactivity : | Human |
| Format : | Purified |
| 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 : Purification : | 0.1 mg Purified by protein-A affinity chromatography |
|----------------------------|---|
| Content : | 1 mg/ml Formulation : Phosphate buffered saline (PBS) solution with 15 mM sodium azide |
| Storage condition : | Store at 2-8°C. Do not freeze. |

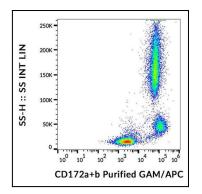


Figure 1 : Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-human CD172a/b (SE5A5) purified, GAM-APC.