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Product datasheet for AM05588RP-N

SIRP alpha (SIRPA) Mouse Monoclonal Antibody [Clone ID: 15-414]

Product data:

Product Type:	Primary Antibodies
Clone Name:	15-414
Applications:	FC
Recommended Dilution:	**Flow Cytometry:** Use 10 µl of neat antibody to label 1x10^6 cells in 100 µl.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Monocyte-derived dendritic cells.
Specificity:	This antibody is specific for CD172a, also known as signal-regulatory protein alpha.
Formulation:	PBS Label: PE State: Lyophilized purified IgG fraction from Tissue Culture Supernatant Stabilizer: 1% BSA, 5% Sucrose Preservative: 0.09% Sodium Azide Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Reconstitute with 1.0ml distilled water.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	PE
Storage:	Prior to and following reconstitution store undiluted at 2-8°C. **DO NOT FREEZE!** This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	signal regulatory protein alpha
Database Link:	Entrez Gene 140885 Human P78324

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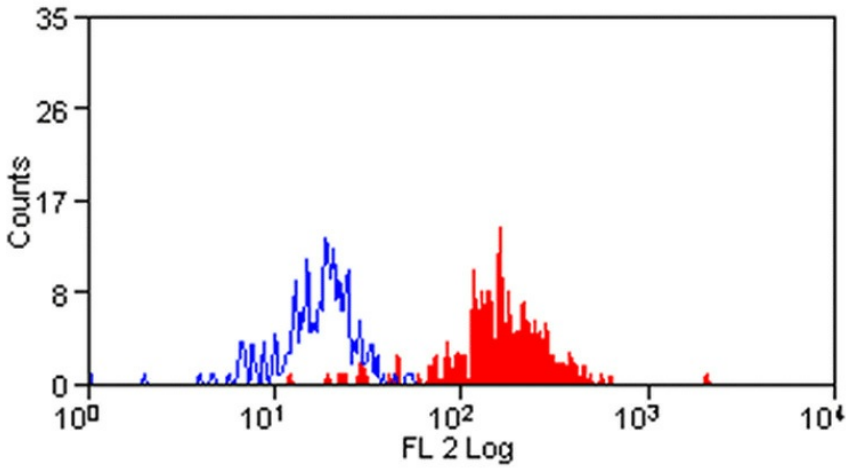
Background: CD172a is a receptor-type transmembrane glycoprotein expressed on cells of myeloid origin, including granulocytes, dendritic cells (DCs), macrophages, mast cells and haematopoietic stem cells. CD172a acts as a substrate for several activated tyrosine kinases, including EGFR, PDGFR, src and insulin receptor and is involved in the negative regulation of receptor tyrosine kinase-coupled signaling pathways. Ligand binding of CD172a to integrin-associated protein CD47, results in tyrosine kinase phosphorylation of immunoreceptor tyrosine-based inhibitory motifs (ITIMs) within the cytoplasmic region of CD172a, mediating the recruitment and activation of the tyrosine phosphatases SHP-1 and SHP-2. These then act as regulators of cellular function, through dephosphorylation of specific substrates. Ligation of CD172a with CD47 has been demonstrated in several regulatory processes, including the inhibition of host cell phagocytosis by macrophages and the bi-directional activation of T cells and DCs.

Synonyms: SHP substrate 1, SHPS-1, Sirp-alpha-2, Sirp-alpha-3, MyD-1 antigen, p84, BIT, MFR, MYD1, PTPNS1, SHPS1

Product images:



Peripheral Human monocytes stained with Mouse anti Human CD172a Antibody -RPE.