

Mouse anti-Human CD172a Monoclonal Antibody | anti-CD172a antibody

Anti-Hu CD172a PE

CATALOG # AAA129157	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD172a; Monoclonal Antibody; Anti-Hu CD172a PE; PTPNS1; BIT; MFR; SIRPA; SHPS1; signal regulatory protein alpha; anti-CD172a antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Number	15-414
Specificity	The mouse monoclonal antibody 15-414 recognizes an extracellular epitope of CD172a (SIRP alpha), an approximately 90kDa transmembrane glycoprotein expressed on cells of myeloid origin and neurons.
Purity/Purification	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD172a antibody	FCM/FACS (Flow Cytometry)
Conjugation	PE
Immunogen	Kg-1a cell line
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD172a antibody	CD172a, the signal-regulatory protein alpha (SIRP alpha), also known as SH2 domain-containing phosphatase substrate-1 (SHPS1), is a 75-110kDa 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.
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References	*Baba T, Badr Mel S, Tomaru U, Ishizu A, Mukaida N: Novel process of intrathymic tumor-immune tolerance through CCR2-mediated recruitment of Sirpalph⁺ dendritic cells: a murine model. PLoS One. 2012;7(7):e41154. doi: 10.1371/journal.pone.0041154., URL: https://www.ncbi.nlm.nih.gov/pubmed/22815949,*Hansen IS, Krabbendam L, Bernink JH, Loayza-Puch F, Hoepel W, van Burgsteden JA, Kuijper EC, Buskens CJ, Bemelman WA, Zaat SAJ, Agami R, Vidarsson G, van den Brink GR, de Jong EC, Wildenberg ME, Baeten DLP, Everts B, den Dunnen J: FcalphaRI co-stimulation converts human intestinal CD103⁺ dendritic cells into pro-inflammatory cells through glycolytic reprogramming. Nat Commun. 2018 Feb 28;9(1):863., URL: https://www.ncbi.nlm.nih.gov/pubmed/term=hansen+i *Liu Y, Bühring HJ, Zen K, Burst SL, Schnell FJ, Williams IR, Parkos CA: Signal regulatory protein (SIRPalph⁺), a cellular ligand for CD47, regulates neutrophil transmigration. J Biol Chem. 2002 Mar 22;277(12):10028-36., URL: http://www.ncbi.nlm.nih.gov/pubmed/term=liu+y+zen,*Seiffert M, Brossart P, Cant C, Cella M, Colonna M, Brugger W, Kanz L, Ullrich A, Bühring HJ: Signal-regulatory protein alpha (SIRPalph⁺) but not SIRPbeta is involved in T-cell activation, binds to CD47 with high affinity, and is expressed on immature CD34(+)CD38(-) hematopoietic cells. Blood. 2001 May 1;97(9):2741-9., URL: http://www.ncbi.nlm.nih.gov/pubmed/term=seiffert+
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NCBI AND UNIPROT INFORMATION

NCBI GI #	91105764
NCBI GeneID	140885
NCBI Accession #	NP_001035111.1
NCBI GenBank Nucleotide #	NM_001040022.1
UniProt Accession #	P78324 ; O00683 ; O43799 ; Q8N517 ; Q8TAL8 ; Q9H0Z2 ; Q9UDX2 ; Q9UIJ6 ; Q9Y4U9 ; A2A2E1 ; A8K411 ; B2R6C3
Molecular Weight	54,967 Da
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type substrate 1
NCBI Official Synonym Full Names	signal-regulatory protein alpha
NCBI Official Symbol	SIRPA
NCBI Official Synonym Symbols	BIT; MFR; P84; SIRP; MYD-1; SHPS1; CD172A; PTPNS1
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type substrate 1; myd-1 antigen; inhibitory receptor SHPS-1; macrophage fusion receptor; CD172 antigen-like family member A; tyrosine phosphatase SHP substrate 1; brain-immunoglobulin-like molecule with tyrosine-b
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type substrate 1
UniProt Gene Name	SIRPA
UniProt Synonym Gene Names	BIT; MFR; MYD1; PTPNS1; SHPS1; SIRP; SHP substrate 1; SHPS-1; Bit; Sirp-alpha-1; Sirp-alpha-2
UniProt Entry Name	SHPS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/monoclonal/cd172a-antibody-clone-15-414-flow-cytometry-elisa/129157>