

CD172A
Purified Mouse Monoclonal Antibody
Catalog # AO2667a

Specification

CD172A - Product Information

Application	E, WB
Primary Accession	P78324
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	55kDa KDa

Immunogen

Purified recombinant fragment of human CD172A (AA: extra 235-373) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

CD172A - Additional Information

Gene ID 140885

Other Names

BIT; MFR; P84; SIRP; MYD-1; SHPS1; SIRPA; PTPNS1

Dilution

E~~ 1/10000
WB~~ 1/500 - 1/2000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CD172A is for research use only and not for use in diagnostic or therapeutic procedures.

CD172A - Protein Information

Name SIRPA

Synonyms BIT, MFR, MYD1, PTPNS1, SHPS1, SIRP

Function

Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment.

May play a key role in intracellular signaling during synaptogenesis and in synaptic function (By similarity). Involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin. Mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Plays a role in antiviral immunity and limits new world arenavirus infection by decreasing virus internalization (By similarity). Receptor for THBS1 (PubMed:24511121). Interaction with THBS1 stimulates phosphorylation of SIRPA (By similarity). In response to THBS1, involved in ROS signaling in non-phagocytic cells, stimulating NADPH oxidase-derived ROS production (PubMed:24511121).

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon, liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas

CD172A - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD172A - Images

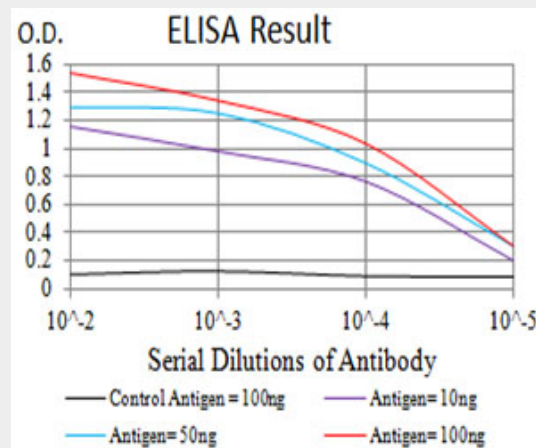


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

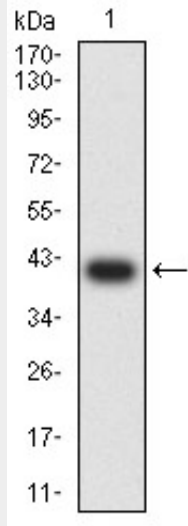


Figure 2:Western blot analysis using CD172A mAb against human CD172A (AA: extra 235-373) recombinant protein. (Expected MW is 41.5 kDa)

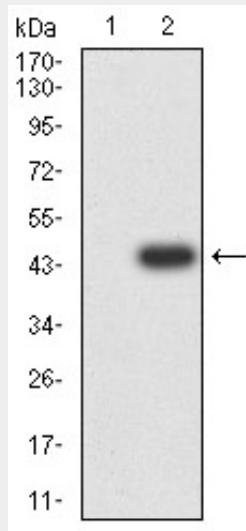


Figure 3:Western blot analysis using CD172A mAb against HEK293 (1) and CD172A (AA: extra 235-373)-hlgGfc transfected HEK293 (2) cell lysate.

CD172A - References

1. J Biol Chem. 2015 Dec 25;290(52):31113-25.
2. J Innate Immun. 2014;6(4):553-60.