

**CD172A / SIRPA Antibody (aa451-500)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS15059****Specification**

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**CD172A / SIRPA Antibody (aa451-500) - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">P78324</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

**CD172A / SIRPA Antibody (aa451-500) - Additional Information****Gene ID** 140885**Other Names**

Tyrosine-protein phosphatase non-receptor type substrate 1, SHP substrate 1, SHPS-1, Brain Ig-like molecule with tyrosine-based activation motifs, Bit, CD172 antigen-like family member A, Inhibitory receptor SHPS-1, Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha-1, Sirp-alpha-1, Signal-regulatory protein alpha-2, Sirp-alpha-2, Signal-regulatory protein alpha-3, Sirp-alpha-3, p84, CD172a, SIRPA, BIT, MFR, MYD1, PTPNS1, SHPS1, SIRP

**Target/Specificity**

Sirp alpha1 Antibody detects endogenous levels of total Sirp alpha1 protein.

**Reconstitution & Storage**

Store at -20°C for up to one year.

**Precautions**

CD172A / SIRPA Antibody (aa451-500) is for research use only and not for use in diagnostic or therapeutic procedures.

**CD172A / SIRPA Antibody (aa451-500) - 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:<a href="http://www.uniprot.org/citations/24511121" target="\_blank">24511121</a>). 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:<a href="http://www.uniprot.org/citations/24511121" target="\_blank">24511121</a>).

#### 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

#### Volume

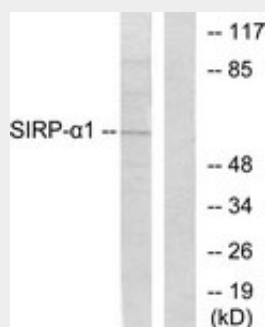
50 µl

### CD172A / SIRPA Antibody (aa451-500) - 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 / SIRPA Antibody (aa451-500) - Images



Western blot of extracts from HepG2 cells, using Sirp alpha1 Antibody.

### CD172A / SIRPA Antibody (aa451-500) - Background

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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.

#### **CD172A / SIRPA Antibody (aa451-500) - References**

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Kharitonov A.,et al.Nature 386:181-186(1997).  
Sano S.,et al.Biochem. J. 344:667-675(1999).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Deloukas P.,et al.Nature 414:865-871(2001).