

**Human CellExp CD172A / SIRP, human recombinant protein**  
**SHPS1, SIRPA, CD172A, BIT, MFR, MYD1, P84, PTPNS1**  
**Catalog # PBV11125r****Specification**

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**Human CellExp CD172A / SIRP, human recombinant protein - Product info**Primary Accession  
Calculated MW[P78324](#)

This protein rh CD172a /SIRPA is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 38.1 kDa. The predicted N-terminus is Glu 31. DTT-reduced Protein migrates as 45-55 kDa in SDS-PAGE due to glycosylation. KDa

**Human CellExp CD172A / SIRP, human recombinant protein - Additional Info**Gene ID **140885**  
Gene Symbol **SIRPA****Other Names**

SHPS1, SIRPA, CD172A, BIT, MFR, MYD1, P84, PTPNS1

Gene Source **Human**  
Source **HEK293 cells**  
Assay&Purity **SDS-PAGE; ≥96%**  
Assay2&Purity2 **N/A;**  
Recombinant **Yes**  
**Target/Specificity**  
CD172A / SIRP**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

**Format**

Lyophilized

**Storage**

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

**Human CellExp CD172A / SIRP, human recombinant protein - 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](#)

#### **Human CellExp CD172A / SIRP, human recombinant protein - Images**

#### **Human CellExp CD172A / SIRP, human recombinant protein - Background**

Tyrosine-protein phosphatase non-receptor type substrate 1 (SHPS1) is also known as CD172 antigen-like family member A (CD172a), Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha (SIRPA or SIRP alpha) or p84, is a member of the SIRP family, and also belongs to the immunoglobulin superfamily. SIRP alpha is Ubiquitous and highly expressed in brain. SIRPA / CD172a is immunoglobulin-like cell surface receptor for CD47 and acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPA / SHPS-1 supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a key role in intracellular signaling during synaptogenesis and in synaptic function. By similarity, SIRPA / MyD1 involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin and 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.

#### **Human CellExp CD172A / SIRP, human recombinant protein - 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).  
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