

SIRP-α1 Polyclonal Antibody

Catalog # AP72484

Product Information

Application WB, IHC-P **Primary Accession** P78324

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW54967

Additional Information

Gene ID 140885

Other Names SIRPA; BIT; MFR; MYD1; PTPNS1; SHPS1; SIRP; 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; Inhibito

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

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: <u>24511121</u>). 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.

Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not **Tissue Location**

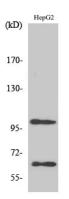
T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon,

liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas

Background

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.

Images



Western Blot analysis of various cells using SIRP-α1 **Polyclonal Antibody**

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