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# SIRP alpha Rabbit mAb

Catalog # AP76711

#### **Product Information**

ApplicationWB, ICCPrimary AccessionP78324ReactivityHumanHostRabbit

**Clonality** Monoclonal Antibody

Calculated MW 54967

#### **Additional Information**

**Gene ID** 140885

Other Names SIRPA

**Dilution** WB~~1/500-1/1000 ICC~~N/A

Format 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and

0.05% BSA.

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

### **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).

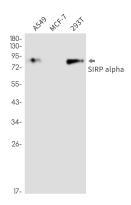
**Cellular Location** 

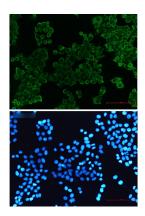
Membrane; Single-pass type I membrane protein.

**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

## **Images**





Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.