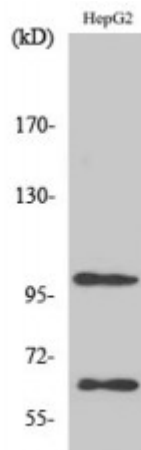


Anti-SIRP-alpha antibody



Description	Rabbit polyclonal to SIRP-alpha1.
Model	STJ95666
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human SIRP-alpha1
Immunogen Region	420-500 aa, C-terminal
Gene ID	140885
Gene Symbol	SIRPA
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000
Specificity	SIRP-alpha1 Polyclonal Antibody detects endogenous levels of SIRP-alpha1 protein.
Tissue Specificity	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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	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 Macr

Molecular Weight	55 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:9662OMIM:602461
Alternative 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 Macr
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 . 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.
Cellular Localization	Membrane. Single-pass type I membrane protein.
Post-translational Modifications	N-glycosylated. Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and PDGF. Dephosphorylated by PTPN11.