



SIRP- α 1 Polyclonal Antibody

Catalog No	YP-Ab-04211
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	SIRPA
Immunogen	The antiserum was produced against synthesized peptide derived from human Sirp alpha1. AA range:451-500
Specificity	SIRP- α 1 Polyclonal Antibody detects endogenous levels of SIRP- α 1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	SIRP Alpha;SIRPA;BIT;Brain Ig-like molecule with tyrosine-based activation motifs;CD172 antigen;SHPS1;Tyrosine-protein phosphatase non-receptor type substrate 1;MFR;MYD1;PTPNS1;SIRP;SHP substrate 1;SHPS-1;CD172 antigen-like family member A;Inhibito
Observed Band	55kD
Calculated Molecular Weight	55kD
Cell Pathway	Membrane; Single-pass type I membrane 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.
Function	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.,PTM:N-glycosylated., PTM:Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and PDGF. Dephosphoryla

Background

The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. This gene and its product share very high similarity with several other members of the SIRP family. These related genes are located in close proximity to each other on chromosome 20p13. Multiple alternati

matters needing attention

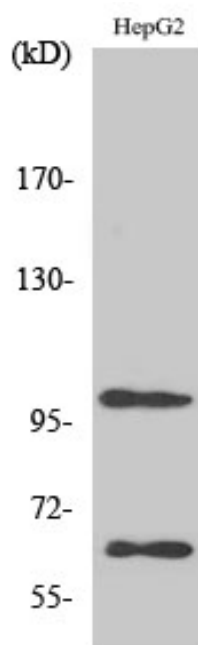
Avoid repeated freezing and thawing!

Usage suggestions

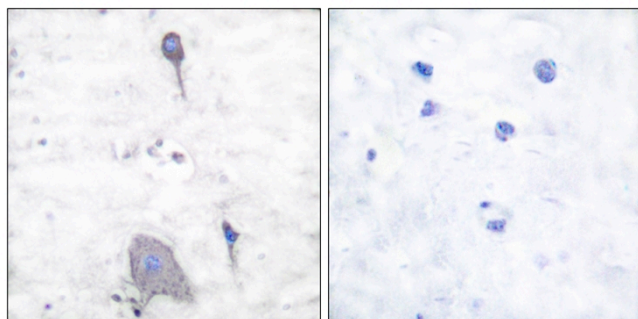
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



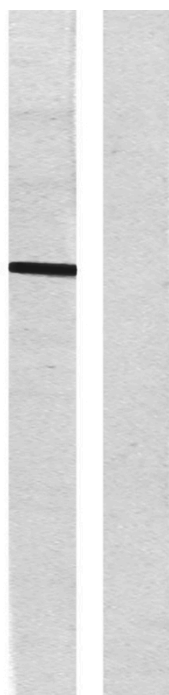
Products Images



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



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Sirp alpha1 Antibody. The picture on the right is blocked with the synthesized peptide.

SIRP- α 1 --

-- 117

-- 85

-- 48

-- 34

-- 26

-- 19

(kD)

Western blot analysis of lysates from HepG2 cells, using Sirp alpha1 Antibody. The lane on the right is blocked with the synthesized peptide.