



Rabbit Anti-Human SIRPa Polyclonal Antibody (CABT-L2120)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Signal Regulatory Protein Alpha (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against SIRPa. It has been selected for its ability to recognize SIRPa in immunohistochemical staining and western blotting.
Target	SIRPa
Immunogen	Recombinant fragment corresponding to human SIRPA (Ser105~Arg324)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Pig
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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.
Keywords	CD172a;SIRP-A;P84;BIT;MFR;MYD1;PTPNS1;SHPS1;SIRP;Tyrosine-Protein Phosphatase Non-Receptor Type Substrate 1;Macrophage fusion receptor

GENE INFORMATION

Gene Name	Sirpa signal-regulatory protein alpha [Mus musculus (house mouse)]
Official Symbol	SIRPA
Synonyms	SIRPA; signal-regulatory protein alpha; Bit; P84; SIRP; SHP-1; CD172a; Ptpns1; SHPS-1; A1835480; tyrosine-protein phosphatase non-receptor type substrate 1; mSIRP-alpha1; sirp-alpha-1; myD-1 antigen; SHP substrate 1; inhibitory receptor SHPS-1; signal-regulatory protein alpha-1; CD172 antigen-like family member A; brain immunological-like with tyrosine-based motifs; protein tyrosine phosphatase, non-receptor type substrate 1; brain Ig-like molecule with tyrosine-based activation motifs;
Entrez Gene ID	19261
Protein Refseq	NP_001171118
UniProt ID	P97797
Chromosome Location	2 F3; 2 63.19 cM
Pathway	Cell surface interactions at the vascular wall; Cell-Cell communication; DAP12 interactions; Hemostasis; IL-1 Signaling Pathway; Immune System; Innate Immune System; Osteoclast differentiation;

Function

SH3 domain binding; protein binding; protein phosphorylated amino acid binding;
