

Product datasheet for **AP06316PU-N**

SIRP alpha (SIRPA) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 450-500 of Human SIRP- α 1.
Specificity:	This antibody detects endogenous levels of Sirp alpha1 protein. (region surrounding Arg479)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze thaw cycles!
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~55 kDa
Gene Name:	signal regulatory protein alpha
Database Link:	Entrez Gene 19261 Mouse Entrez Gene 25528 Rat Entrez Gene 140885 Human P78324



Background:

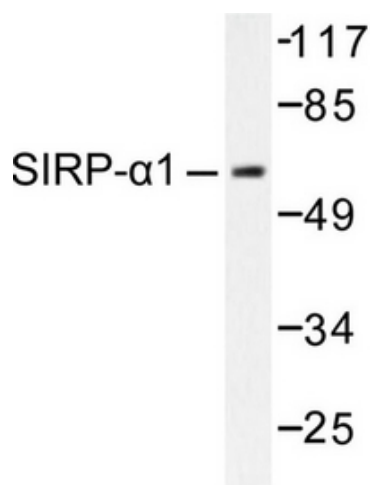
SIRPs (signal-regulatory proteins) are a family of transmembrane glycoproteins that were identified by their association with the Src homology 2 domain-containing protein-tyrosine phosphatase SHP-2 in response to insulin. The SIRP family negatively regulates the PI 3-K pathway, which may diminish EGFR-mediated motility and survival phenotypes that contribute to transformation of certain cell types. SIRP- α 1 is a transmembrane protein which contains an extracellular portion with three immunoglobulin-like structures and a cytoplasmic region with four potential tyrosine phosphorylation sites. SIRP- α 1 is a substrate for activated receptor tyrosine kinases. In its tyrosine phosphorylated form, SIRP- α 1 binds to SH-PTP2 through SH2 interactions and acts as an SH-PTP2 substrate. SIRP- α 1 has been shown to have negative regulatory effects on cellular responses induced by growth factors, oncogenes and insulin. SIRP- β 1 shares extensive sequence homology with SIRP- α 1 in its extracellular portion but lacks the cytoplasmic portion. SIRP- γ , originally designated SIRP- β 2 (SIRP-B2, CD172g) has unique characteristics from both the α and β versions. SIRP- γ is expressed on the majority of T cells and a proportion of B cells. CD47 associates with SIRP- γ , and this interaction signals unidirectionally only.

Synonyms:

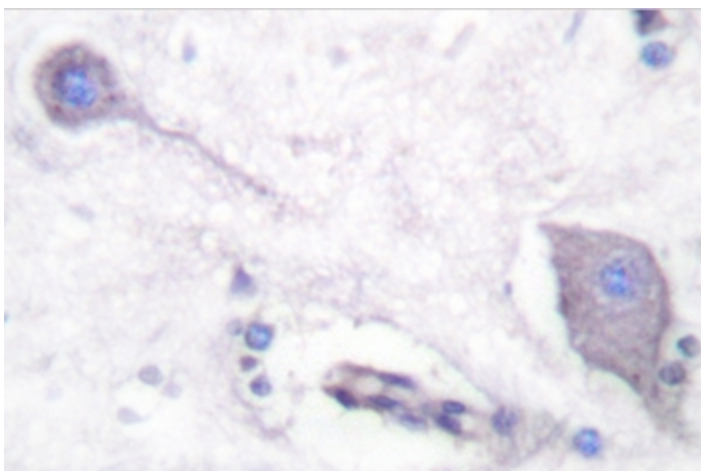
SHP substrate 1, SHPS-1, Sirp-alpha-2, Sirp-alpha-3, MyD-1 antigen, p84, BIT, MFR, MYD1, PTPNS1, SHPS1

Protein Families:

Druggable Genome, Phosphatase, Transmembrane

Product images:


Western blot (WB) analysis of CD172a / SIRPA antibody in extracts from HepG2 cells.



Immunohistochemistry (IHC) analyzes of CD172a / SIRPA antibody in paraffin-embedded human brain tissue.