

Recombinant Human Tyrosine-protein phosphatase non-receptor type substrate 1(SIRPA),partial

Catalog No: #AP70776

Package Size: #AP70776-1 20ug #AP70776-2 100ug #AP70776-3 1mg

Description

Product Name	Recombinant Human Tyrosine-protein phosphatase non-receptor type substrate 1(SIRPA),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:31-373aaSequence Info:Extracellular Domain
Other Names	Brain Ig-like molecule with tyrosine-based activation motifs ;BitCD172 antigen-like family member AInhibitory receptor SHPS-1Macrophage fusion receptorMyD-1 antigen;Signal-regulatory protein alpha-1 ;Sirp-alpha-1Signal-regulatory protein alpha-2 ;Sirp-alpha-2Signal-regulatory protein alpha-3 ;Sirp-alpha-3p84; CD172a
Accession No.	P78324
Calculated MW	53.7 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	EEELQVIQPDKSVLVAAGETATLRCTATSLIPVGPIQWFRGAGPGRELIYNQKEGHFPRVTTVSDLTKRNNMDF SIRIGNITPADAGTYICVKFRKGSPPDDVEFKSGAGTELSVRAPKPSAPVVS GPAARATPQHTVSFTCESHGFSP RDITLKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVVLTRDVDHSQVICEVAHVTLQGDPLRG TANLSETIR VPPTLEVTQQPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTEASTVTENKDGTYNWMWSWLLVNVSA HRDDVKLTCQVEHDGQPAVSKSHDLKVS AHPKEQGSNTAAENTGSNERNIY
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 mbrane. 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.

References

The DNA sequence and comparative analysis of human chromosome 20.Deloukas P., Matthews L.H., Ashurst J.L., Burton J., Gilbert J.G.R., Jones M., Stavrides G., Almeida J.P., Babbage A.K., Bagguley C.L., Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M., Beasley O.P., Bird C.P., Blakey S.E. , Bridgeman A.M., Brown A.J., Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P., Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M., Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R., Coulson A., Coville G.J., Deadman R., Dharni P.D., Dunn M., Ellington A.G., Frankland J.A., Fraser A., French L., Garner P., Grafham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E., Hammond S.,

Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J., Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D., Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S., Lehvaeslaiho M.H., Leversha M.A., Lloyd C., Lloyd D.M., Lovell J.D., Marsh V.L., Martin S.L., McConnachie L.J., McLay K., McMurray A.A., Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T., Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.I., Phillimore B.J.C.T., Prathalingam S.R., Plumb R.W., Ramsay H., Rice C.M., Ross M.T., Scott C.E., Sehra H.K., Shownkeen R., Sims S., Skuce C.D., Smith M.L., Soderlund C., Steward C.A., Sulston J.E., Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A., Tracey A., Tromans A.C., Vaudin M., Wall M., Wallis J.M., Whitehead S.L., Whittaker P., Willey D.L., Williams L., Williams S.A., Wilming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S., Rogers J. Nature 414:865-871(2001) Research Topic: Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.