

SIRPA, 27-373aa, Human, His tag, E.coli

Cat.NO.: TP03940

3th Edition

Synonyms: Tyrosine-protein phosphatase non-receptor type substrate 1, BIT, CD172A, MFR, MYD-1, P84, PTPNS1, SHPS1, SIRP

Description: SIRPA 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. It 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. Recombinant human SIRPA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In PBS buffer (pH 7.4) containing 10% glycerol, 1mM DTT

Molecular Weight: 40.4 kDa (370aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSGVAGEEELQVIQPKSVLVAAGETATLRCTATSLIPVGPIQWFRGAGPGREL
IYNQKEGHFPRVTTVSDLTKRNNMDF SIRIGNITPADAGTYCYVKFRKGSPPDVEFKSGAGTELSVRAKPSAPVVSG
PAARATPQHTVSFTCESHGFSPRDITLKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVVLTRQDVHSQVCEVA
HVTLQGDPLRGTANLSETIRVPPTLEVTQQPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTETASTVTENK
DGTYNWMSWLLVNVSAHRDDVKLTCQVEHDGQPAVSKSHDLKVS AHPKEQGSNTAAENTGSNERNIY

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.