

## SIRPA recombinant protein

SIRPA, 27-373aa, Human, His tag, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA11831</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

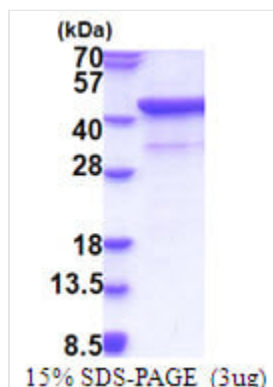
### PRODUCT SYNONYMS

SIRPA; 27-373aa; Human; His tag; E Coli; Tyrosine-protein phosphatase non-receptor type substrate 1; BIT; CD172A; MFR; MYD-1; P84; PTPNS1; SHPS1; SIRP; SIRPA recombinant protein

### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Purity/Purification                                   | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                                           | Liquid. In PBS buffer (pH 7.4) containing 10% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                     |
| Concentration                                         | 0.5 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                            |
| Sequence                                              | MGSSHHHHH SSGLVPRGSH MSGVAGEEE LQVIQPKSV LVAAGETATL RCTATSLIPV GPIQWFRGAG<br>PGRELIYNQK EGHFPRVTTV SDLTKRNNMD FSIRIGNITP ADAGTYYCVK FRKGSPDDVE FKSGAGTELS<br>VRAKPSAPVV SGPAARATPQ HTVSFTCESH GFSPRDITLK WFKNGNELSD FQTNVDPVGE SVSYSIHSTA<br>KVVLTREDVH SQVICEVAHV TLQGDPLRGT ANLSETIRVP PTLEVTQQPV RAENQVNVTC QVRKFYPQRL<br>QLTWLENGNV SRTETASTVT ENKDGTYNWM SWLLVNVSAH RDDVKLTCQV EHDGQPAVSK SHDLKVS AHP<br>KEQGSNTAAE NTGSNERNIY |
| Sequence Length                                       | 504                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Applicable Applications for SIRPA recombinant protein | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Antigen Species                                       | Human                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tag Information                                       | His-tag                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Preparation and Storage                               | For long term storage, aliquot and store at -20 degree C to -80 degree C.<br>Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                            |

### IMAGES



#### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SIRPA recombinant protein | 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. |
| Product Categories/Family for SIRPA recombinant protein   | Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| References                                                | Timms J.F., Swanson K.D., et al. (1999) Curr. Biol. 9:927-930.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 18426911                                                                                                    |
| NCBI GeneID                      | 140885                                                                                                      |
| NCBI Accession #                 | NP_542970                                                                                                   |
| NCBI GenBank Nucleotide #        | NM_080792.2                                                                                                 |
| UniProt Accession #              | P78324; O00683; O43799; Q8N517; Q8TAL8; Q9H0Z2; Q9UDX2; Q9UIJ6; Q9Y4U9; A2A2E1; A8K411; B2R6C3              |
| Molecular Weight                 | 40.4 kDa (370aa) confirmed by MALDI-TOF                                                                     |
| NCBI Official Full Name          | tyrosine-protein phosphatase non-receptor type substrate 1 isoform 1                                        |
| NCBI Official Synonym Full Names | signal regulatory protein alpha                                                                             |
| NCBI Official Symbol             | SIRPA                                                                                                       |
| NCBI Official Synonym Symbols    | BIT; MFR; P84; SIRP; MYD-1; SHPS1; CD172A; PTPNS1                                                           |
| NCBI Protein Information         | tyrosine-protein phosphatase non-receptor type substrate 1                                                  |
| UniProt Protein Name             | Tyrosine-protein phosphatase non-receptor type substrate 1                                                  |
| UniProt Gene Name                | SIRPA                                                                                                       |
| UniProt Synonym Gene Names       | BIT; MFR; MYD1; PTPNS1; SHPS1; SIRP; SHP substrate 1; SHPS-1; Bit; Sirp-alpha-1; Sirp-alpha-2; Sirp-alpha-3 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.