

## Recombinant Human SIRPA Protein, DYKDDDDK-tagged

Cat. No. SIRPA-932H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human signal regulatory protein alpha(SIRPA) protein, transcript variant 2(NM_001040023), with a DYKDDDDK tag, was expressed in human cells.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | Human Cells   |
| <b>Description</b>      | <p>The protein encoded by this gene 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. This protein 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. This gene and its product share very high similarity with several other members of the SIRP family. These related genes are located in close proximity to each other on chromosome 20p13. Multiple alternatively spliced transcript variants have been determined for this gene.</p> |
| <b>Form</b>             | Purified protein formulated in a sterile solution of TBS buffer, pH7.358, without any preservatives.  |
| <b>Molecular Mass</b>   | 52.3 kDa  |

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|---------------------|--|
| <b>Endotoxin</b>    | Endotoxin level is < 0.1 ng/g of protein (<1EU /g)   |
| <b>Purity</b>       | >90% by SDS-PAGE gel and Coomassie Blue staining   |
| <b>Applications</b> | Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies. |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | SIRPA signal-regulatory protein alpha [ Homo sapiens ]  |
| <b>Official Symbol</b> | SIRPA   |
| <b>Synonyms</b>        | SIRPA; signal-regulatory protein alpha; protein tyrosine phosphatase, non receptor type substrate 1 , PTPNS1; tyrosine-protein phosphatase non-receptor type substrate 1; BIT; CD172a; MFR; MYD 1; P84; SHPS 1; SHPS1; SIRP; SIRP ALPHA 1; SIRPalpha; SIRPalpha2; myd-1 antigen; inhibitory receptor SHPS-1; macrophage fusion receptor; CD172 antigen-like family member A; tyrosine phosphatase SHP substrate 1; brain-immunoglobulin-like molecule with tyrosine-based activation motifs; MYD-1; CD172A; PTPNS1; |
| <b>Gene ID</b>         | 140885  |
| <b>mRNA Refseq</b>     | NM_001040022  |
| <b>Protein Refseq</b>  | NP_001035111  |
| <b>MIM</b>             | 602461  |
| <b>UniProt ID</b>      | P78324  |

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