

## Recombinant Mouse Sirpa Protein, Myc/DDK-tagged

Cat. No. Sirpa-5882M Lot. No. (See product label)

### SPECIFICATION

|                         |  |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length signal-regulatory protein alpha (Sirpa), transcript variant 2, with C-terminal MYC/DDK tag, expressed in HEK293T cells.  |
| <b>Species</b>          | Mouse  |
| <b>Source</b>           | HEK293   |
| <b>Description</b>      | 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 membrane. 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. |
| <b>Molecular Mass</b>   | 56.4 kDa   |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |

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|-------------------------|--|
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.   |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method   |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.  |
| <b>GENE INFORMATION</b> |  |
| <b>Gene Name</b>        | Sirpa signal-regulatory protein alpha [ Mus musculus (house mouse) ]   |
| <b>Official Symbol</b>  | Sirpa  |
| <b>Synonyms</b>         | SIRPA; signal-regulatory protein alpha; tyrosine-protein phosphatase non-receptor type substrate 1; mSIRP-alpha1; sirp-alpha-1; myD-1 antigen; SHP substrate 1; inhibitory receptor SHPS-1; signal-regulatory protein alpha-1; CD172 antigen-like family member A; brain immunological-like with tyrosine-based motifs; protein tyrosine phosphatase, non-receptor type substrate 1; brain Ig-like molecule with tyrosine-based activation motifs; Bit; P84; SIRP; SHP-1; CD172a; Ptpns1; SHPS-1; AI835480 |
| <b>Gene ID</b>          | 19261  |
| <b>mRNA Refseq</b>      | NM_001177646   |
| <b>UniProt ID</b>       | P97797   |

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