

## Active Recombinant Human SIRPA protein, mFc-Avi-tagged, Biotinylated

**Cat. No.** SIRPA-0702H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Biotinylated Recombinant Human SIRPA protein(Glu31-Arg370), fused with mFc and Avi tag, was expressed in HEK293.                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 31-370 a.a.                                                                                                                                                                                                                                |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.                                                             |
| <b>Bio-activity</b>     | Immobilized Human CD47, Fc Tag at 2 µg/mL (100 µL/well) can bind Biotinylated Human SIRP alpha, Mouse IgG2a Fc,Avitag with a linear range of 0.6-10 ng/mL.                                                                                 |
| <b>Molecular Mass</b>   | This protein carries a mouse IgG2a Fc tag at the C-terminus, followed by an Avi tag (Avitag).The protein has a calculated MW of 65.9 kDa. The protein migrates as 85-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| <b>Proteinlength</b>    | Glu31-Arg370                                                                                                                                                                                                                               |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                 |

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|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >95% as determined by SDS-PAGE.>90% as determined by SEC-MALS.                                                                                                                |
| <b>Storage</b>        | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                        |

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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**UniProt ID**

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