

## Product Sheet



### Human SIRPA Protein; His Tag

GM-88888RP-100 / 100 µg

GM-88888RP-1000 / 1 mg

### Product Information

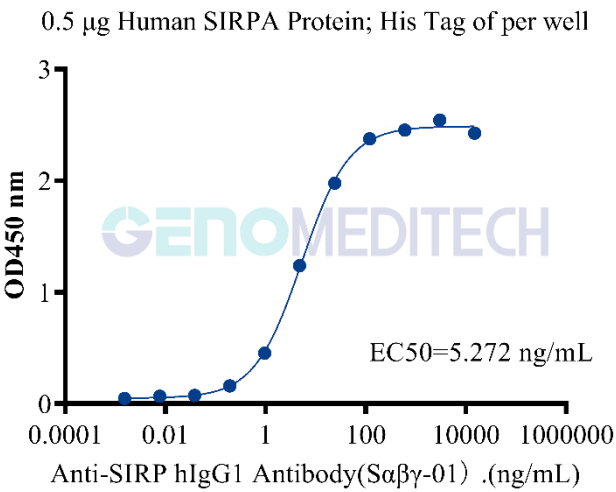
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b> | Human SIRPA Protein; His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>       | Human SIRPA Protein; His Tag (GM-88888RP) is expressed from human 293 cells (HEK-293). It contains AA Glu 31 - Arg 370 (Accession # NP_001035111.1). This protein carries a His tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Predicted MW</b> | 38.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>       | > 90% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Endotoxin</b>    | < 1 EU/µg, determined by LAL gel clotting assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Formulation</b>  | Liquid; Supplied as a 0.2 µm filtered solution of PBS, pH 7.2–7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>      | Store at ≤ -70°C, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Shipping</b>     | Shipped on dry ice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>     | SHPS1, CD172A, BIT, MFR, MYD1, P84, PTPNS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Background</b>   | SIRPα (signal regulatory protein alpha; CD172a/SHPS-1), encoded by SIRPA on human chromosome 20p13 (Gene ID 140885), is a type I transmembrane glycoprotein of the immunoglobulin superfamily. Its ectodomain comprises one N-terminal V-type immunoglobulin domain (residues 32–137) followed by two C1-type domains, whereas the cytoplasmic tail contains four immunoreceptor tyrosine-based inhibitory motifs that recruit the phosphatases SHP-1 and SHP-2. Predominantly expressed on myeloid cells and neurons, SIRPα engages CD47 to deliver a "don't-eat-me" signal that suppresses phagocytosis. The CD47–SIRPα axis is therefore an innate immune checkpoint of major interest for cancer immunotherapy. |

Version 4.0.26.924

Data

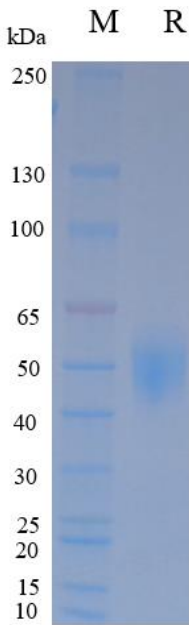
Affinity

Bioactivity-ELISA



Human SIRPA Protein; His Tag (Catalog # GM-88888RP) was immobilized at 5 µg/ml (100 µL/well). Increasing concentrations of Anti-SIRP hIgG1 Antibody(Sαβγ-01) (Catalog # GM-88417AB) were added.

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

| CD47:SIRPα                                          |                                                   |
|-----------------------------------------------------|---------------------------------------------------|
| <a href="#">H_SIRPα Blockade Reporter Cell Line</a> | <a href="#">H_SIRPα Reporter Jurkat Cell Line</a> |
| <a href="#">Cynomolgus_CD47 CHO-K1 Cell Line</a>    | <a href="#">H_CD47 aAPC CHO-K1 Cell Line</a>      |
| <a href="#">H_CD47 CHO-K1 Cell Line</a>             | <a href="#">H_CD47 MC38 Cell Line</a>             |

|                                           |                                                           |
|-------------------------------------------|-----------------------------------------------------------|
| H_CD47 PDL1 MC38(mouse_PDL1 KO) Cell Line | H_SIRPA(SIRP $\alpha$ ) CHO-K1 Cell Line                  |
| Mouse_CD47 CHO-K1 Cell Line               |                                                           |
| Anti-CD47 hIgG4 Antibody(5F9)             | Anti-mouse SIRPA mIgG1 Antibody(p84)                      |
| Anti-mouse SIRPA RIgG1 Antibody(p84)      | Anti-SIRP hIgG1 Antibody(S $\alpha$ $\beta$ $\gamma$ -01) |