

# Human Tyrosine-Protein Phosphatase Non-Receptor Type Substrate 1 (SIRPA) ELISA Kit | SIRPA elisa kit

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| CATALOG #<br><b>AAA330867</b> | REACTIVITY<br><b>Human</b> |
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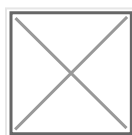
## PRODUCT SYNONYMS

Tyrosine-Protein Phosphatase Non-Receptor Type Substrate 1 (SIRPA); Human Tyrosine-Protein Phosphatase Non-Receptor Type Substrate 1 (SIRPA) ELISA Kit; SIRPA; BIT; CD172A; MFR; MYD-1; P84; PTPNS1; SHPS-1; SHPS1; SIRP; SIRP-ALPHA-1; SIRPalpha; SIRPalpha2; SHP substrate-1; brain-immunoglobulin-like molecule with tyrosine-based activation motifs; macrophage fu; SIRPA elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Tyrosine-protein phosphatase non-receptor type substrate 1 (SIRPA) ELISA Kit has high sensitivity and excellent specificity for detection of Human SIRPA. No significant cross-reactivity or interference between Human SIRPA and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sequence Length         | 504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## IMAGES



Standard Curve (Sample)

Fig.1. Human Tyrosine-protein phosphatase non-receptor type substrate 1 (SIRPA) Standard Curve.

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Related Product Information for SIRPA elisa kit | <p>Description: This Human Tyrosine-protein phosphatase non-receptor type substrate 1 (SIRPA) ELISA Kit employs a two-site sandwich ELISA to quantitate SIRPA in samples. An antibody specific for SIRPA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SIRPA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SIRPA is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SIRPA bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: Signal-regulatory protein alpha 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.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|-----------------------------------------------------------------------------------------------|
| NCBI GI #                        | 91105764                                                                                      |
| NCBI GeneID                      | 140885                                                                                        |
| NCBI Accession #                 | NP_001035111.1                                                                                |
| NCBI GenBank Nucleotide #        | NP_001035111.1                                                                                |
| UniProt Accession #              | P78324                                                                                        |
| 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 |
| UniProt Entry Name               | SHPS1_HUMAN                                                                                   |

**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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/tyrosine-protein-phosphatase-non-receptor-type-substrate-1-sirpa/330867>