Human SIRPa Protein, mFc Tag

Cat. No. PME100531

PRODUCT INFORMATION

Target	SIRPa
Synonyms	SHPS1;SIRPA;CD172A;BIT;MFR;MYD1;P84;PTPNS
Description	Recombinant Human SIRPa with C-terminal mouse Fc tag
Delivery	In Stock
Uniprot ID	P78324
Expression Host	HEK293
Tag	C-Mouse Fc Tag
Molecular Characterization	SIRPa(Glu31-Tyr373) mFc(Pro99-Lys330)
Molecular Weight	The protein has a predicted molecular mass of 63.8 kDa after removal of the signal peptide.The apparent molecular mass of SIRPa-mFc is approximately 70-100 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	Tyrosine-protein phosphatase non-receptor type substrate 1 (SHPS1) is also known as CD172 antigen-like family member A (CD172a), Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha (SIRPA or SIRP alpha) or p84, is a member of the SIRP family, and also belongs to the immunoglobulin superfamily. SIRP alpha is Ubiquitous and highly expressed in brain. SIRPA / CD172a is immunoglobulin-like cell surface receptor for CD47 and acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPA / SHPS-1 supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a key role in intracellular signaling during synaptogenesis and in synaptic function By similarity. SIRPA / MyD1 involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin and 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.
Usage	Research use only
Conjugate	Unconjugated

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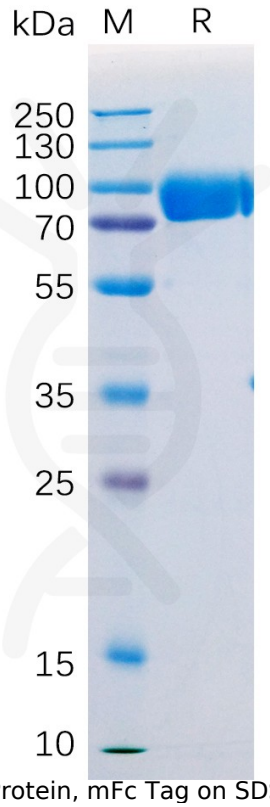


Figure 1. Human SIRPα Protein, mFc Tag on SDS-PAGE under reducing condition.

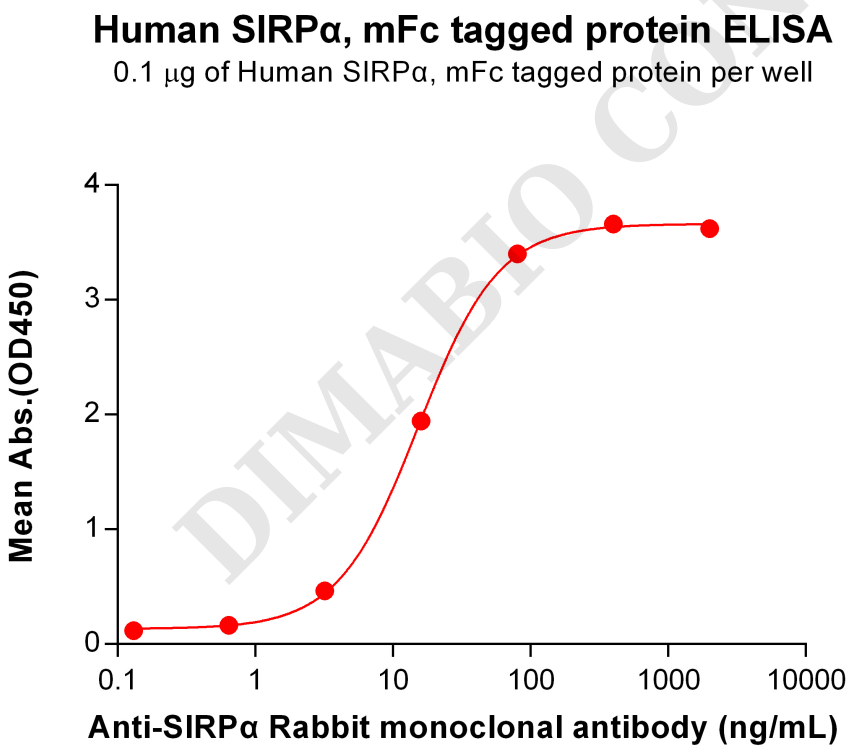


Figure 2. ELISA plate pre-coated by 1 μg/ml (100 μl/well) Human SIRPα Protein, mFc Tag (PME100531) can bind anti-SIRPα antibody, Rabbit mAb clone: DM8 in a linear range of 3.2-80 ng/mL.

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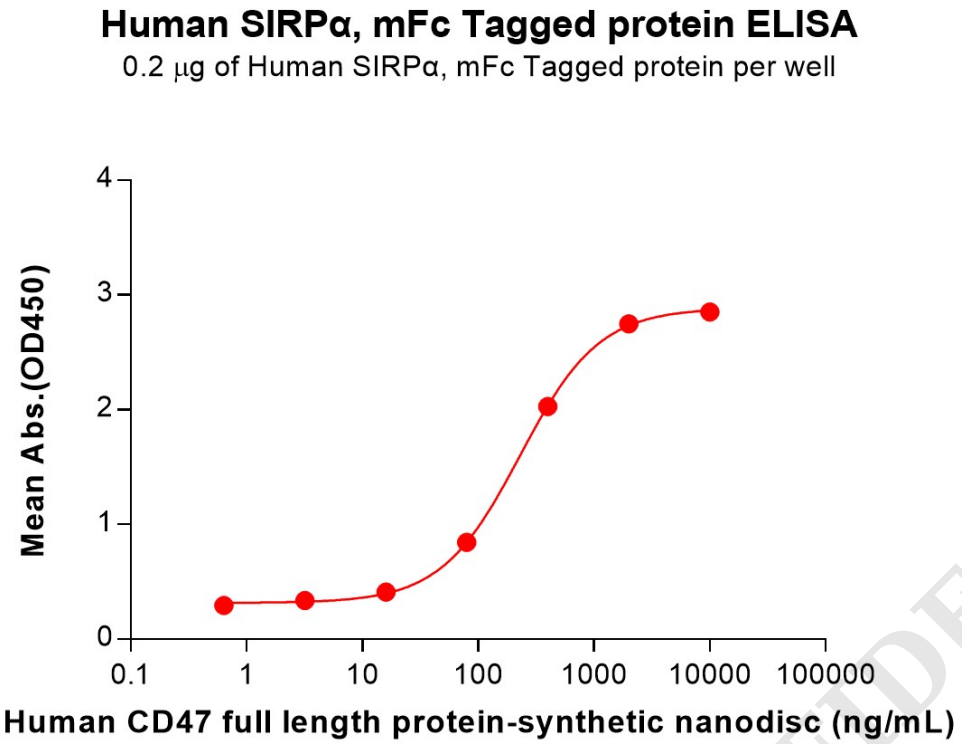


Figure 3. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human SIRPα Protein, mFc Tag (PME100531) can bind Human CD47 full length protein-synthetic nanodisc (FLP100039) in a linear range of 80–2000 ng/mL.

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