

SIRP gamma/SIRPG Active Protein | SIRPG active protein

SIRP gamma/SIRPG Protein, Human, Recombinant (ECD, His Tag)

CATALOG #
AAA257993

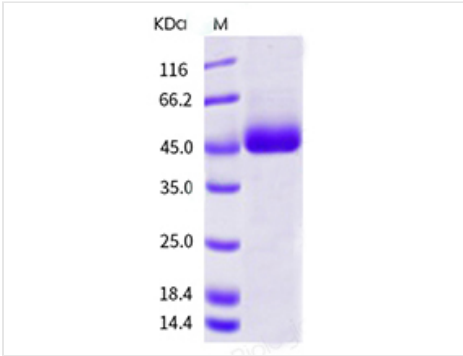
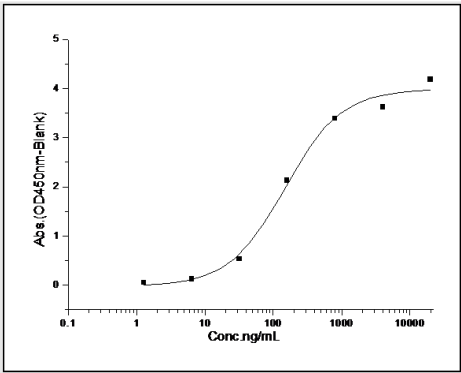
HOST
HEK293 Cells

PRODUCT SYNONYMS

SIRP gamma/SIRPG; SIRP gamma/SIRPG Protein; Human; Recombinant (ECD; His Tag); Human SIRPG/SIRP gamma/CD172g Protein (ECD; bA77C3.1 Protein; CD172g Protein; SIRP-B2 Protein; SIRPB2 Protein; SIRPgamma Protein; signal-regulatory protein gamma; SIRPG active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>96% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser36 4
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Val 64
Tag	C-His
Protein Construction	A DNA sequence encoding the human SIRPG (NP_061026.2) extracellular domain (Met1-Ser364) was expressed with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized human SIRPG-His at 10ug/ml (100uL/well) can bind human CD47-Fc. The EC50 of human CD47-Fc is 0.58-1.34ug/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human SIRPG-His at 10 ug/ml (100 ul/well) can bind human CD47-Fc. The EC50 of human CD47-Fc is 0.58-1.34 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for SIRPG active protein	Background: Signal-regulatory protein gamma (SIRPG/SIRP gamma) also known as CD172 antigen-like family member B, CD172g, and CD172g antigen, 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. SIRPG/SIRP gamma/CD172g is a probable immunoglobulin-like cell surface receptor. On binding with CD47, SIRPG can mediate cell-cell adhesion. SIRPG/SIRP gamma is engagement on T-cells by CD47 on antigen-presenting cells results in enhanced antigen-specific T-cell proliferation and costimulates T-cell activation. SIRPG/SIRP gamma/CD172g is detected in liver, and at very low levels in brain, heart, lung, pancreas, kidney, placenta and skeletal muscle. Expressed on CD4+ T-cells, CD8+ T-cells, CD56-bright natural killer (NK) cells, CD20+ cells, and all activated NK cells. This cytokine is mainly present in the paracortical T-cell area of lymph nodes, with only sparse positive cells in the mantle and in the germinal center of B-cell follicles. In the thymus, SIRPG is primarily expressed in the medulla on mature T-lymphocytes that have undergone thymic selection.
Product Categories/Family for SIRPG active protein	Phosphatases and Regulators
References	Meador JA, et al. (2011) p53-independent downregulation of histone gene expression in human cell lines by high- and low-let radiation. Radiat Res. 175(6): 689-99.Reddy MV, et al. (2011) Association between type 1 diabetes and GWAS SNPs in the southeast US Caucasian population. Genes Immun. 12(3): 208-12.Kawasaki M, et al. (2009) Changes in the gene expression of peripheral blood mononuclear cells during the menstrual cycle of females is associated with a gender bias in the incidence of systemic lupus erythematosus. Clin Exp Rheumatol. 27(2): 260-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	94538335
NCBI GeneID	55423
NCBI Accession #	NP_061026.2
NCBI GenBank Nucleotide #	NM_018556.3
UniProt Accession #	Q9P1W8; Q5D051; Q5JV25; Q5MKL4; Q8WWA5; Q9NQK8; B1AKP6
Molecular Weight	29,967 Da
NCBI Official Full Name	signal-regulatory protein gamma isoform 1
NCBI Official Synonym Full Names	signal regulatory protein gamma
NCBI Official Symbol	SIRPG
NCBI Official Synonym Symbols	CD172g; SIRPB2; SIRP-B2; bA77C3.1; SIRPgamma

NCBI Protein Information	signal-regulatory protein gamma
UniProt Protein Name	Signal-regulatory protein gamma
UniProt Gene Name	SIRPG
UniProt Synonym Gene Names	SIRPB2; SIRP-gamma; SIRP-b2; SIRP-beta-2
UniProt Entry Name	SIRPG_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/hek293-cells-active-protein/sirp-gamma-sirpg/257993>