Datasheet for ABIN7317478

SIRPG Protein (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	SIRPG
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SIRPG protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SIRP gamma/CD172g Protein (His Tag)(Active)
Sequence:	Met 1-Ser 364
Characteristics:	A DNA sequence encoding the human SIRPG (NP_061026.2) extracellular domain (Met 1-Ser 364) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA.Immobilized human SIRPG-His at 10 µg/ml (100 µl/well) can bind human CD47-Fc , The EC50 of human CD47-Fc is 0.58-1.34 µg/ml.

Target Details

Target:	SIRPG

Target Details

Alternative Name:	SIRP gamma/CD172g (SIRPG Products)
Background:	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 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. Synonym: Signal-Regulatory Protein Gamma, SIRP-Gamma, CD172 Antigen-Like Family Member B, Signal-Fegulatory Protein Beta-2, SIRP-b2, SIRP-Beta-2, CD172g, SIRPG, SIRPB2
Molecular Weight:	34.7 kDa
NCBI Accession:	NP_061026

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.