Datasheet for ABIN7317941

FCGR2B Protein (Biotin,His-Avi Tag)

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Overview

Quantity:	100 µg
Target:	FCGR2B
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCGR2B protein is labelled with Biotin,His-Avi Tag.

Product Details

Purpose:	Recombinant Human CD32b/FCGR2B Protein (His &AVI Tag), Biotinylated(Active)
Sequence:	Ala 46-Ile 224
Characteristics:	A DNA sequence encoding the extracellular domain (Ala 46-Ile 224) of mature human CD32b (NP_001002274.1) protein was fused with a signal peptide at the N-terminus and a c-terminal polyhistidine tagged AVI tag at the C-terminus. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Purity:	> 95 % 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 IgG1 at 10 µg/ml (100 µl/well) can bind Human CD32b. The EC50 of Human CD32b is 1.6 - 3.7 µg/ml.2. Labeling ratio of biotin to protein: 0.5

Target Details

Target:	FCGR2B
Alternative Name:	CD32b/FCGR2B (FCGR2B Products)
Background:	Background: FcγRIIB is a low affinity receptor that recognizes the Fc portion of IgG. The human CD32 group consists of FcγRIIA, FcγRIIB, and FcγRIIC proteins that share 94-99 % sequence identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. FcγRII protein is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. FcγRIIB has an intrinsic cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM) and delivers an inhibitory signal upon ligand binding. Ligation of FcγRIIB on B cells down-regulates antibody production and in some circumstances may promote apoptosis. Co-ligation of FcγRIIB on dendritic cells inhibits maturation and blocks cell activation. FcγRIIB may also be a target for monoclonal antibody therapy for malignancies. FcγRIIB plays an important negative-regulating role through modulating the signals from activation receptors. Synonym: Low Affinity Immunoglobulin Gamma Fc Region Receptor II-b, IgG Fc Receptor II-b, CDw32, Fc-Gamma RII-b, Fc-Gamma-RIIb, FcRII-b, CD32, FCGR2B, FCG2, IGFR2
Molecular Weight:	24 kDa
NCBI Accession:	NP_001002274
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Production of Molecular Mediator of Immune Response, BCR Signaling

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.