

Recombinant Human CD32b/FCGR2B Protein (His &AVI Tag), Biotinylated



Catalog Number:PKSH031724

Note: Centrifuge before opening to ensure complete recovery of vial contents.

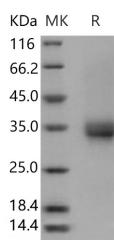
Description

Synonyms	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
Species	Human
Expression Host	HEK293 Cells
Sequence	Ala 46-Ile 224
Accession	NP_001002274.1
Calculated Molecular Weight	24 kDa
Tag	C-His-Avi
Bioactivity	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

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Fc γ RIIB is a low affinity receptor that recognizes the Fc portion of IgG. The human CD32 group consists of Fc γ RIIA, Fc γ RIIB, and Fc γ RIIC proteins that share 94-99% sequence identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. Fc γ RII protein is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. Fc γ RIIB has an intrinsic cytoplasmic immunoreceptor tyrosine-

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based inhibitory motif (ITIM) and delivers an inhibitory signal upon ligand binding. Ligation of Fc γ RIIB on B cells down-regulates antibody production and in some circumstances may promote apoptosis. Co-ligation of Fc γ RIIB on dendritic cells inhibits maturation and blocks cell activation. Fc γ RIIB may also be a target for monoclonal antibody therapy for malignancies. Fc γ RIIB plays an important negative-regulating role through modulating the signals from activation receptors.

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