A Reliable Research Partner in Life Science and Medicine

Recombinant Rat CD32b/FCGR2B Protein (His Tag)

Catalog No. PKSR030402

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

Description

Synonyms FCRII;Fcgr2

Species Rat

Expression Host

Sequence

Met 1-Pro 212

Accession

Q63203-1

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Pro 212

21.9 kDa

35-40 kDa

C-His

Bioactivity Measured by its binding ability in a functional ELISA. Immobilized human rat

FCGR2B-His at 10 µg/ml (100 µl/well) can bind biotinylated human IgG1, The

EC50 of biotinylated human IgG1 is 0.3-0.8 µg/ml.

Properties

Purity > 97 % as determined by reducing SDS-PAGE.

Endotoxin $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

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

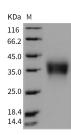
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 97 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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Elabscience Bionovation Inc.



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FcγRIIB is a low affinity receptor that recognizes the Fc portion of IgG. The human CD32 group consists of FcγRIIA, FcyRIIB, and FcyRIIC proteins that share 94-99% sequence identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. FcqRII protein is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. FcyRIIB has an intrinsic cytoplasmic immunoreceptor tyrosinebased inhibitory motif (ITIM) and delivers an inhibitory signal upon ligand binding. Ligation of FcγRIIB on B cells downregulates antibody production and in some circumstances may promote apoptosis. Co-ligation of FcyRIIB on dendritic cells inhibits maturation and blocks cell activation. FcyRIIB may also be a target for monoclonal antibody therapy for malignancies. FcyRIIB plays an important negative-regulating role through modulating the signals from activation receptors.

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