Mouse CD32 / FCGR2B Protein (His & AVI Tag), Biotinylated

Catalog Number: 50030-M27H-B

**General Information**

**Gene Name Synonym:**
Fcg2

**Protein Construction:**
A DNA sequence encoding the extracellular domain (Met 1-Arg 217) of mouse FGGR2B (NP_001076571.1) as fused with 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.

**Source:** Mouse

**Expression Host:** HEK293 Cells

**QC Testing**

**Purity:** > 97 % as determined by SDS-PAGE

**Bio Activity:**
1. Measured by its ability to bind human IgG1 in a functional ELISA. 2. Labeling ratio of biotin to protein: 0.5

**Endotoxin:**
< 1.0 EU per μg of the protein as determined by the LAL method

**Stability:**
Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Thr 40

**Molecular Mass:**
The secreted recombinant mouse FGGR2B consists of 212 amino acids and has a predicted molecular mass of 23.9 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm FGGR2B is approximately 38-43 kDa due to glycosylation.

**Formulation:**
Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

**Usage Guide**

**Storage:**
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

**Reconstitution:**
Detailed reconstitution instructions are sent along with the products.

**SDS-PAGE:**

**Protein Description**

Receptors for Fc portion of IgG (Fcy Rs) are members of the Ig superfamily, and are divided into three classes designated Fcy RI (CD64), Fcy RII (CD32), and Fcy RIII (CD16). CD32 protein is a low affinity receptor for IgG that binds only IgG immune complexes and is expressed on a diverse range of cells such as monocytes, macrophages, neutrophils, eosinophils, platelets, and B cells. Human CD32 class is encoded by three closely related genes, and designated Fcy RII A, B, and C which share 94-99% amino acid identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. CD32 is involved in a number of immune responses including antibody-dependent cell-mediated cytotoxicity, clearance of immune complexes, release of inflammatory mediators, and regulation of antibody production.

**References**


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