

Human CD32b / FCGR2B Protein (ECD, His Tag)

Catalog Number: 10259-H08C



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD32; CD32A; CD32B; CDw32; Fc gamma RII; Fc gamma RIIB; FCG2; FcGR; FCGR2; FCGR21; FCGR2A; IGFR2

Protein Construction:

A DNA sequence encoding (Ala46-Pro217) of human CD32b (NP_001002274.1) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: CHO Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC

Bio Activity:

1. Immobilized Human FcγRIIB/C / CD32b/c recombinant protein (Cat. 10259-H08C) can bind biotinylated human IgG1, The EC₅₀ is 60-180 ng/mL.

2. Loaded Human FcγRIIB/C / CD32b/c recombinant protein (Cat. 10259-H08C) on His1K Biosensor, can bind Rituximab (IgG1) with an affinity constant of 1.5 μM as determined in a BLI assay (ForteBio Octet Red384).

3. Captured IgG1 on proteinA Chip can bind Human FcγRIIB/C / CD32b/c recombinant protein (Cat. 10259-H08C) with an affinity constant of 2.9 μM as determined in an SPR assay (Biacore T200).

4. Captured Human CD32b/c recombinant protein (10259-H08C) on Anti-His Chip can bind IgG1 Fc Protein, His (Cat. 10702-HNAC) with an affinity constant of 37.5 μM as determined in an SPR assay (Biacore T200).

Endotoxin:

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

Predicted N terminal: Ala 46

Molecular Mass:

The secreted recombinant human CD32b consists of 183 amino acids and predicts a molecular mass of 20.8 KDa. The apparent molecular mass of the protein is approximately 22-29 KDa in SDS-PAGE under reducing conditions due to different 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

Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

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:

