

Datasheet for ABIN2870542

**FCGR2B Protein (AA 46-217) (His tag,AVI tag,Biotin)**[Go to Product page](#)**2** Images

## Overview

Quantity:	200 µg
Target:	FCGR2B
Protein Characteristics:	AA 46-217
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FCGR2B protein is labelled with His tag,AVI tag,Biotin.

## Product Details

Brand:	MABSol®,PrecisionAvi
Sequence:	AA 46-217
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 23 kDa. The protein migrates as 29-32 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	FCGR2B
Alternative Name:	Fc gamma RIIB / CD32b ( <a href="#">FCGR2B Products</a> )
Background:	Receptors for the Fc region of IgG (Fc $\gamma$ R) are members of the Ig superfamily that function in the activation or inhibition of immune responses. Three classes of human Fc $\gamma$ Rs: RI (CD64), RII (CD32), and RIII (CD16), which generate multiple isoforms, are recognized. There are three genes for human Fc $\gamma$ RII /CD32 (A, B, and C) and one for mouse Fc $\gamma$ RII B (CD32B). CD32 is a low affinity receptor for IgG. Low affinity immunoglobulin gamma Fc region receptor II-b (FCGR2B) is also known as CD32b, FCG2, IGFR2. CD32B is expressed on B cells and myeloid dendritic cells. Ligation of CD32B on B cells downregulates antibody production and may, in some circumstances, promote apoptosis. Co-ligation of CD32B on dendritic cells inhibits maturation and blocks cell activation. CD32B may also be a target for monoclonal antibody therapy for malignancies.
Molecular Weight:	23.0 kDa
NCBI Accession:	<a href="#">NP_003992</a>
UniProt:	<a href="#">P31994</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">BCR Signaling</a>

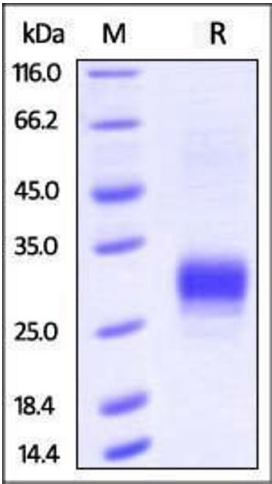
## Application Details

Comment:	<p>Ready-to-use Avitag<sup>TM</sup> biotinylated protein:</p> <p>The product is exclusively produced using the Avitag<sup>TM</sup> technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.</p> <p>This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.</p>
Restrictions:	For Research Use only

Handling

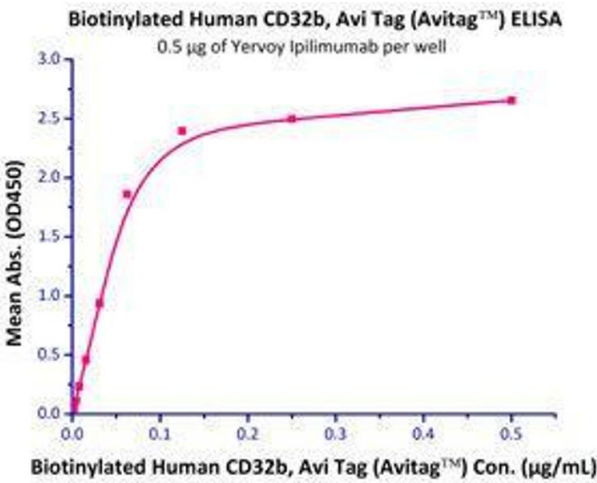
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Images



SDS-PAGE

**Image 1.** Biotinylated Human Fc gamma RIIB / CD32b on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

**Image 2.** Immobilized Yervoy Ipilimumab at 5 µg/mL (100 µl/well), can bind Biotinylated Human Fc gamma RIIB / CD32b (Cat# CDB-H82E0) with a linear range of 2-62 ng/mL.