



# Recombinant Protein Technical Manual

## Recombinant Human CD32b/FCGR2B Protein (His&AVI Tag)(Active)

RPES4923

### Product Data:

**Product SKU:** RPES4923

**Size:** 50µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** NP\_001002274.1

### Protein Information:

**Molecular Mass:** 24 kDa

**AP Molecular Mass:** 30-35 kDa

**Tag:** C-His & AVI

**Bio-activity:** Immobilized human CD32b-AVI-His at 10 µg/ml (100 µl/well) can bind biotinylated Human IgG1, The EC50 of biotinylated Human IgG1 is 0.20-0.48 µg/ml.

**Purity:** > 95 % as determined by reducing SDS-PAGE.

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

**Storage:** 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

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**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

## Immunogen Information:

**Sequence:** Ala 46-Ile 224

## Background:

MD and MD-2 are secretory glycoproteins that exist on the cell surface in complexes with transmembrane proteins. MD is anchored by radioprotective 105 (RP105) which is a molecule containing leucine-rich repeats and is expressed on B cells, dendritic cells and macrophages, while MD-2 is associated with TLR4. MD is required for efficient RP105 cell surface expression and function. It is indicated that the RP105/MD1 complex, in conjunction with TLR4, mediates the innate immune response to LPS in B cells, and also plays a role in protecting against apoptosis, B-cell proliferation, etc. Mouse MD cDNA encodes a 162 amino acid precursor protein with a putative 19 aa signal peptide and two potential N-linked glycosylation sites. It shares 40% and 66% amino acid sequence identity with chicken and human MD respectively. MD is mainly expressed in spleen, and also detectable in liver, brain, thymus, and kidney.