

**Recombinant Human CD32B Protein (His &AVI Tag), Biotinylated**

**Cat.NO.: TP07141**

3th Edition

**Synonyms:**CD32;CD32B;Fc gamma R1IB;FCGR2

**Description:**Fc $\gamma$ R1IB is a low affinity receptor that recognizes the Fc portion of IgG. The human CD32 group consists of Fc $\gamma$ R1IA, Fc $\gamma$ R1IB, and Fc $\gamma$ R1IC proteins that share 94-99% sequence identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. Fc $\gamma$ R1I protein is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. Fc $\gamma$ R1IB has an intrinsic cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM) and delivers an inhibitory signal upon ligand binding. Ligation of Fc $\gamma$ R1IB on B cells down-regulates antibody production and in some circumstances may promote apoptosis. Co-ligation of Fc $\gamma$ R1IB on dendritic cells inhibits maturation and blocks cell activation. Fc $\gamma$ R1IB may also be a target for monoclonal antibody therapy for malignancies. Fc $\gamma$ R1IB plays an important negative-regulating role through modulating the signals from activation receptors.

**Form:**PBS

**Molecular Weight:**24 kDa

**Sequences:**Ala 46-Ile 224

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.