

**Recombinant Human Low Affinity Immunoglobulin Gamma Fc Region Receptor II-B Protein**

**Cat.NO.: TP04904**

3th Edition

**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

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

**Form:**PBS

**Molecular Weight:**20.6 kDa

**Sequences:**Thr43-Pro217

**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.