

Recombinant Protein Technical Manual

Recombinant Mouse TNFRSF1B/CD120b Protein (His Tag) (Active)

RPES4484

Product Data:

Product SKU: RPES4484 **Size:** 50μg

Species: Mouse Expression host: HEK293 Cells

Uniprot: NP 035740.2

Protein Information:

Molecular Mass: 26.8 kDa

AP Molecular Mass: 45 kDa

Tag: C-His

Bio-activity: Measured by its ability to inhibit TNFα-mediated cytotoxicity in L-929 mouse

fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 1-3 µg/mL in the presence of 0.1 ng/mL of recombinant

mouse TNF α .

Purity: > 97 % as determined by SDS-PAGE

Endotoxin: $< 1.0 \text{ EU per } \mu \text{g}$ 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:

Synonyms: CD120b;p75;TNF-alphaR2;TNF-R-II;TNF-R2;TNF-R75;TNFalpha-

R2;TNFBR;Tnfr2;TNFR80;TNFRII;Tumor necrosis factor receptor superfamily

member 1b;Tnfrsf1b

Immunogen Information:

Sequence: Met 1-Gly 258

Background:

Tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B), also known as Tumor necrosis factor receptor 2 (TNFR2) or CD120b antigen, is a member of the tumor necrosis factor receptor superfamily. TNFR2/CD120b/TNFRSF1B is a member of the TNF-receptor superfamily. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. Knockout studies in mice also suggest a role of this protein in protecting neurons from apoptosis by stimulating antioxidative pathways. TNFR2/CD120b/TNFRSF1B is not a major contributing factor to the genetic risk of type 2 diabetes, its associated peripheral neuropathy and hypertension and related metabolic traits in North Indians. Tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B) has been reported to be associated with SLE risk in Japanese populations. TNFR2/CD120b/TNFRSF1B serves as a receptor with high affinity for TNFSF2 and approximately 5-fold lower affinity for homotrimeric TNFSF1. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity.