

TNFR2/CD120b/TNFR1B Protein, Cynomolgus, Rhesus, Recombinant (His)

General Information

Synonyms:	tumor necrosis factor receptor superfamily, member 1b
Protein Construction:	A DNA sequence encoding the cynomolgus / rhesus TNFRSF1B (XP_005544817.1/NP_001253134.1) (Met1-Asp257) was expressed, fused with a polyhistidine tag at the C-terminus. Cynomolgus and Rhesus TNFRSF1B sequences are identical. Predicted N terminal: Leu 23
Species:	Cynomolgus,Rhesus
Expression Host:	HEK293 Cells
Accession:	XP_005544817.1&NP_001253134.1
Molecular Weight:	26.5 kDa (predicted); 38 kDa (reducing conditions)

QC Testing

Biological Activity:	1.Immobilized Recombinant Cynomolgus/Rhesus TNFR2/CD120b/TNFRSF1B Protein (His Tag) (Cat#TMPY-03101) at 5 µg/mL (100 µL/well) can bind Recombinant Human TNF-alpha/TNFA Protein, Biotinylated (Cat#TMPY-05237), the EC50 is 4.8 ng/mL (Routinely tested). 2. Immobilized Recombinant Human TNF-alpha/TNFA Protein, Biotinylated (Cat#TMPY-05237) at 1 µg/mL (100 µL/well) on Streptavidin precoated (5 µg/mL, 100 µL/well) can bind Recombinant Cynomolgus/Rhesus TNFR2/CD120b/TNFRSF1B Protein (His Tag) (Cat#TMPY-03101), the EC50 is 1-5 ng/mL (QC tested).
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

Reference

Komata T, et al. (1999) Association of tumor necrosis factor receptor 2 (TNFR2) polymorphism with susceptibility to systemic lupus erythematosus. *Tissue Antigens*. 53(6): 527-33.

Tsuchiya N, et al. (2001) Analysis of the association of HLA-DRB1, TNFalpha promoter and TNFR2 (TNFRSF1B) polymorphisms with SLE using transmission disequilibrium test. *Genes Immun*. 2(6): 317-22.

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