

Recombinant Mouse TNFRSF1B/TNF-R2/CD120b Protein www.abclonal.com

Catalog No.: RP01375 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21938	P25119

Tags

C-His

Synonyms

TNFRSF1B;CD120b;TBPII;TNF-R-II;TNF-R75;TNFBR;TNFR1B;TNFR2;TNFR80;p75;TNFRSF1B;TNFRSF1B;CD120b;TBPII;TNF-R-II;TNF-R75;TNFBR;TNFR1B;TNFR2;TNFR80;p75;TNFRSF1B

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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.

Basic Information

Description

Recombinant Mouse TNFRSF1B/TNF-R2/CD120b Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val23-Gly258) of mouse TNFR2/CD120b/TNFRSF1B (Accession #NP_035740.2) fused with a 6xHis tag at the C-terminus.

Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Mouse TNFRSF1B at 1 μg/mL (100 μL/well) can bind Mouse TNF-alpha with a linear range of 0.64-317.13 ng/mL. 2. 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 2-8 μg/mL in the presence of 0.1 ng/mL of recombinant mouse TNFα.

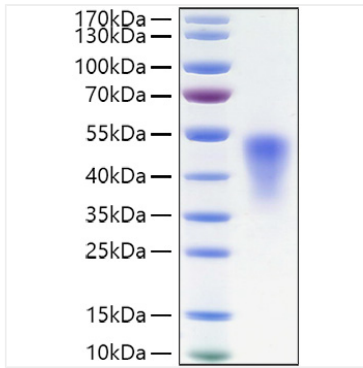
Storage

Store the lyophilized protein at -20°C to -80°C for long term.

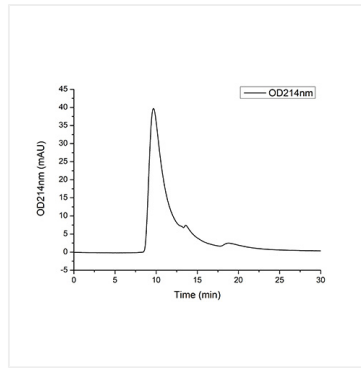
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

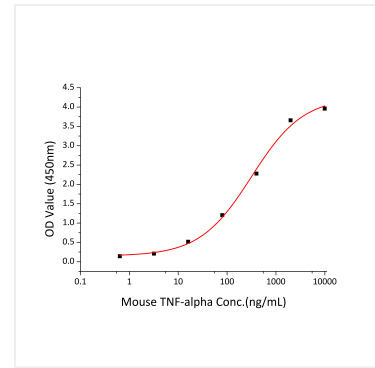
Validation Data



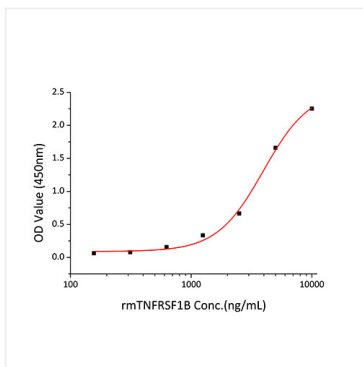
Recombinant Mouse TNFRSF1B/TNFR2/CD120b Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-50kDa.



The purity of Mouse TNFR2/CD120b/TNFRSF1B Protein (Cat.RP01375) was greater than 90% as determined by SEC-HPLC.



Immobilized Mouse TNFRSF1B at 1µg/mL (100 µL/well) can bind Mouse TNF-alpha with a linear range of 0.64-317.13ng/mL.



Recombinant Mouse TNFRSF1B inhibit TNF α -mediated cytotoxicity in L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED₅₀ for this effect is typically 2-8 µg/mL in the presence of 0.1 ng/mL of recombinant mouse TNF α .