

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-

R75;TNFBR;TNFR1B;TNFR2;TNFR80;p75; TNFRSF1B

Product Information

Source

HEK293 cells

Purification ≥ 95 % as

determined by SDS-PAGE;≥ 90 % as determined by

HPLC.

Calculated MW Observed MW

26.17 kDa 35-55 kDa

Endotoxin

< 0.1 EU/µg of the protein by LAL method.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126 6

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-alphainduced 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 6×His tag at the C-terminus.

Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Mouse TNFRSF1B at 1 μ g/mL (100 μ L/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 ED_{50} for this effect is typically 2-8 μ g/mL in the presence of 0.1 ng/mL of recombinant mouse TNFα.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

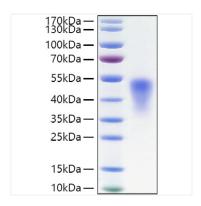
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

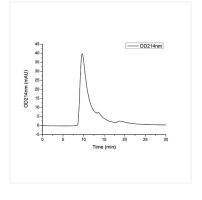
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

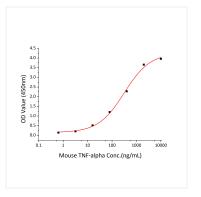
Validation Data



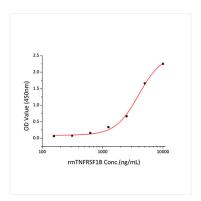
Recombinant Mouse TNFRSF1B/TNF-R2/CD120b Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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



Immobilized Mouse TNFRSF1B at 1μ g/mL (100 μ L/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 μ g/mL in the presence of 0.1 μ g/mL of recombinant mouse TNF α .