

Recombinant Mouse TNFRSF1B/TNF-R2/CD120b Protein

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Catalog No.: RP01395 Recombinant

Sequence Information

Species Mouse **Gene ID** 21938 **Swiss Prot** P25119

Tags

C-hFc

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 HEK293 cells **Purification** $\geq 95\%$ as determined by SDS-PAGE; $\geq 95\%$ as determined by HPLC.

Calculated MW 51.29 kDa **Observed MW** 60-75 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m 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 freeze/thaw cycles.

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 hFc tag at the C-terminus.

Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Mouse TNF- α at 2 μ g/mL (100 μ L/well) can bind Mouse TNFRSF1B with a linear range of 0.02-0.77 ng/mL. 2. Measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED₅₀ for this effect is typically 0.025-0.1 ng/mL in the presence of 0.1 ng/mL of Recombinant Mouse TNF α .

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.

Contact

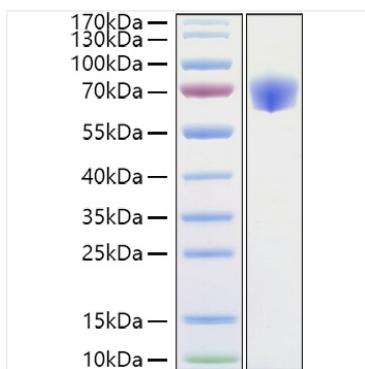


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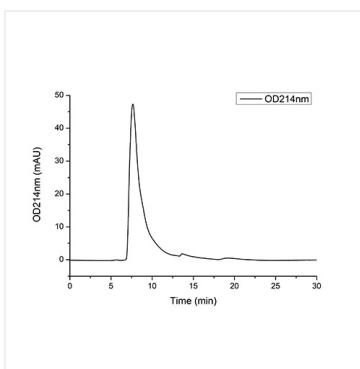
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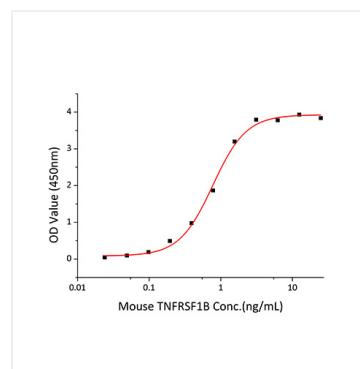
Validation Data



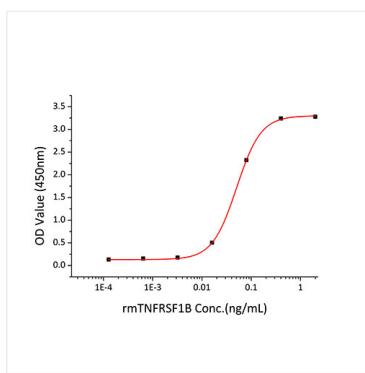
Recombinant Mouse TNFRSF1B/TNF-R2/CD120b Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Mouse TNFR2/CD120b/TNFRSF1B Protein (Cat.RP01395) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant Mouse TNF- α at 2 μ g/mL (100 μ L/well) can bind Mouse TNFRSF1B with a linear range of 0.02-0.77 ng/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 0.025-0.1 ng/mL in the presence of 0.1 ng/mL of recombinant mouse TNF α .