Recombinant Mouse TNFRSF1B/TNF-R2/CD120b Protein

Catalog No.: RP01375

Sequence Information

Species	Gene ID
Mouse	21938
Swiss Prot	**Tags**
P25119	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 % 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.

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 6×His tag at the C-terminus.

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 ED_{50} for this effect is typically 2-8 μg/mL in the presence of 0.1 ng/mL of recombinant mouse TNFα.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

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

Contact

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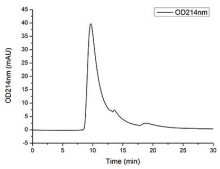
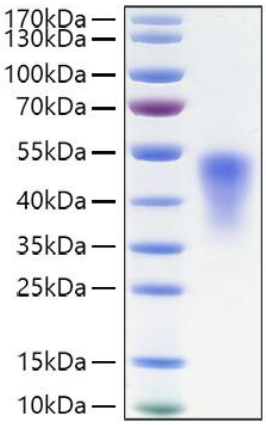
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

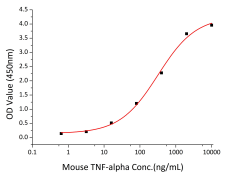
Validation Data



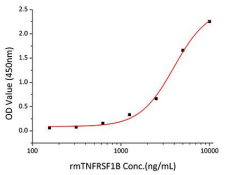
The purity of Mouse TNFR2/CD120b/TNFRSF1B Protein (Cat.RP01375) was greater than 90% as determined by SEC-HPLC.



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



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 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 μg/mL in the presence of 0.1 ng/mL of recombinant mouse TNFα.