Recombinant Human TNFRSF1A/TNF-R1/CD120a Protein

Catalog No.: RP01347

Sequence Information

Species
Human

Gene ID
7132

Swiss Prot
P19438-1

Tags
C-His

Synonyms
TNFRSF1A,CD120a,FPF,TBP1,TNF-R,TNF-R-I,TNF-R55,TNFAR,TNFR1,TNFR55,TNFR60,p55,p55-R,p60

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
22.08 kDa

Observed MW
35-40 kDa

Endotoxin
< 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

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD120a (cluste of differentiation 120a), also known as TNFR1 / TNFRSF1A, is a member of CD family, tumor necrosis factor receptor superfamily. CD120a is one of the most primary receptors for the tumor necrosis factor-alpha. It has been shown to be localized to both plasma membrane lipid rafts and the trans golgi complex with the help of the death domain (DD). CD120a can activate the transcription factor NF-κB, mediate apoptosis, and regulate inflammation processes.

Basic Information

Description
Recombinant Human TNFRSF1A/TNF-R1/CD120a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile22-Thr211) of human CD120a/TNFRSF1A (Accession #NP_001056.1) fused with 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA.Immobilized Human TNFRSF1A at 2 μg/mL (100 μL/well) can bind Mouse TNFα with a linear range of 4-135 ng/mL.
2.Measured by its ability to inhibit TNFα-mediated cytotoxicity in the L929 mouse fibrosarcoma cells in the presence of metabolic inhibitor actinomycin D. The ED_{50} for this effect is typically 22-88ng/mL in the presence of 0.25 ng /mL recombinant human 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℃

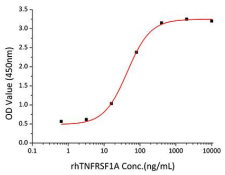
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

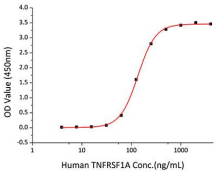
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Please visit http://abclonal.com for a complete listing of recommended products.

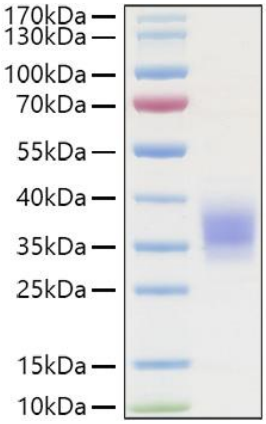
Validation Data



Recombinant Human TNFRSF1A inhibit TNFα-mediated cytotoxicity in the L-929 mouse fibrosarcoma cells in the presence of metabolic inhibitor actinomycin D. The ED_{50} for this effect is typically 22-88 ng/mL in the presence of 0.25 ng/mL recombinant human TNFα.



Immobilized recombinant Human TNFRSF1A at 2 μg/mL (100 μL/well) can bind Mouse TNFα with a linear range of 4-135 ng/mL.



Recombinant Human TNFRSF1A/TNF-R1/CD120a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.