

Recombinant Mouse TNFRSF9/4-1BB/CD137 Protein

Catalog No.: RP01560

Sequence Information

Species **Gene ID**
Mouse 21942

Swiss Prot **Tags**
Q8R037 C-hFc

Synonyms

4-1BB ,CD137 ,CDw137 ,ILA,
TNFRSF9,4-1BB ,CD137 ,CDw137 ,
ILA,TNFRSF9

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
46.03 kDa 60-70 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 stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

CD137 (also known as 4-1BB) is a surface co-stimulatory glycoprotein originally described as present on activated T lymphocytes, which belongs to the tumor necrosis factor (TNF) receptor superfamily. It is expressed mainly on activated CD4+ and CD8+ T cells, and binds to a high-affinity ligand (4-1BBL) expressed on several antigen-presenting cells such as macrophages and activated B cells. Upon ligand binding, 4-1BB is associated with the tumor necrosis factor receptor-associated factors (TRAFs), the adaptor protein which mediates downstream signaling events including the activation of NF-κappaB and cytokine production. 4-1BB signaling either by binding to 4-1BBL or by antibody ligation delivers signals for T-cell activation and growth, as well as monocyte proliferation and B-cell survival, and plays an important role in the amplification of T cell-mediated immune responses.

Basic Information

Description

Recombinant Mouse TNFRSF9/4-1BB/CD137 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val24-Leu211) of mouse TNFRSF9/4-1BB/CD137 (Accession #NP_001070976.1) fused with a hFc tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse TNFSF9 (Catalog: RP00766) at 5 μg/mL (100 μL/well) can bind Mouse TNFRSF9 /4-1BB/CD137 (Catalog: RP01560) with a linear range of 0.005-1.41 ng/mL.

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°C

Operational Notes

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

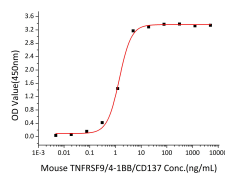
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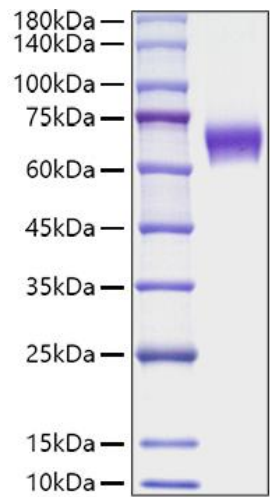
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Validation Data



Immobilized Mouse TNFSF9(Catalog: RP00766) at 5µg/mL (100 µL/well) can bind Mouse TNFRSF9/4-1BB/CD137 (Catalog: RP01560) with a linear range of 0.005-1.41 ng/mL.



Recombinant Mouse TNFRSF9/4-1BB/CD137 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.