Recombinant Mouse TNFSF9/4-1BB Ligand Protein

Catalog No.: RP00766

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Sequence Information

Species
Mouse

Gene ID
21950

Swiss Prot
P41274

Tags
N-His

Synonyms
Tumor necrosis factor ligand superfamily member 9, 4-1BB ligand, 4-1BBL, Tnfsf9, Cd137l, Cd157l, Ly63l, TNFSF9

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
23.80 kDa

Observed MW
35-45 kDa

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

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube 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 ligand superfamily member 9, also known as 4-1BBL, is a member of the the tumornecrosis factor family. Mouse 4-1BBL cDNA encodes a 309 amino acid residues (aa) protein with an 82 aa N-terminal cytoplasmic domain, a 21 aa transmembrane domain and a 206 aa C-terminal extracellular domain.The extracellular domain of 4-1BBL has a tertiary structure similar to that of other TNFSF members, but sharesonly low aa sequence homology (14-16%). 4-1BBL is predominantly expressed on activated antigen presentingcells (APCs) such as B cells, macrophages and dendritic cells (DCs). It is also expressed on most T and Blymphoma cell lines. TNFSF9 has been shown to reactivate anergic T lymphocytes in addition to promoting Tlymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses inCD8 T cells, and is thought to be involved in T cell-tumor cell interaction.

Basic Information

Description
Recombinant Mouse TNFSF9/4-1BB Ligand Protein is produced by Human cells expression system. The target protein is expressed with sequence (Arg104-Glu309) of mouse TNFSF9/4-1BB Ligand (Accession #P41274) fused with aHis tag at the N-terminus.

Activity
Measured by its binding ability in a functional ELISA. 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 0.01-1.41 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℃

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

Contact

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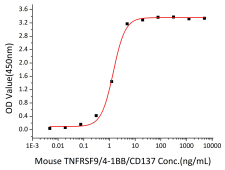
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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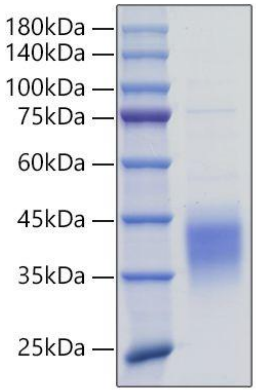

Recombinant Mouse TNFSF9/4-1BB Ligand Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.