

Recombinant Mouse TNFRSF9 protein, Fc-tagged

Cat. No. TNFRSF9-347M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse TNFRSF9 protein (Val24-Leu211), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).

Species Mouse

Source HEK293

ProteinLength 188

Description

4-1BB is also known as CD137, tumor necrosis factor receptor superfamily member 9 (TNFRSF9), induced by lymphocyte activation (ILA), is a co-stimulatory molecule of the tumor necrosis factor (TNF) receptor superfamily. CD137 can be expressed by activated T cells, but to a larger extent on CD8 than on CD4 T cells. In addition, CD137 expression is found on dendritic cells, follicular dendritic cells, natural killer cells, granulocytes and cells of blood vessel walls at sites of inflammation. The best characterized activity of CD137 is its costimulatory activity for activated T cells. Crosslinking of CD137 enhances T cell proliferation, IL-2 secretion survival and cytolytic activity. Further, it can enhance immune activity to eliminate tumors in mice. CD137 can enhance activation-induced T cell apoptosis when triggered by engagement of the TCR/CD3 complex. In addition, 4-1BB/4-1BBL co-stimulatory pathway has been shown to augment secondary CTL responses to several viruses, and meanwhile augment anti-tumor immunity. 4-1BB thus is a promising candidate for immunotherapy of human cancer. CD137 has been shown to interact with TRAF2.

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Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 46.7 kDa. The protein migrates as 50-66 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TNFRSF9
Official Symbol	TNFRSF9
Synonyms	TNFRSF9; tumor necrosis factor receptor superfamily, member 9; tumor necrosis factor receptor superfamily member 9; CD137 antigen; T-cell antigen 4-1BB; 4-1BB ligand receptor; secreted CD137 antigen; ILA; Ly63; 4-1BB; Cd137; CDw137; AA408498; AI325004; A930040I11Rik

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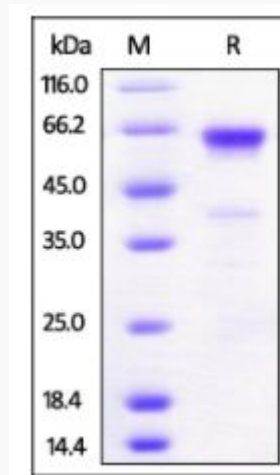
Gene ID 21942

mRNA Refseq NM_001077508

Protein Refseq NP_001070976

UniProt ID Q8R037

**SDS-PAGE of
TNFRSF9-347M**



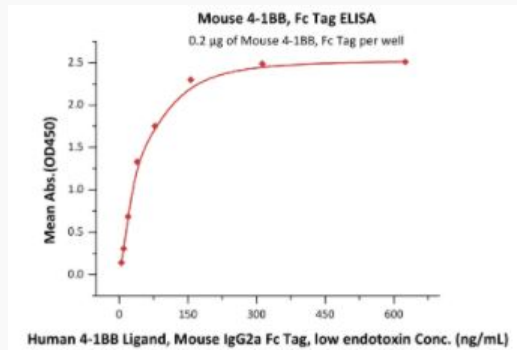
Mouse 4-1BB, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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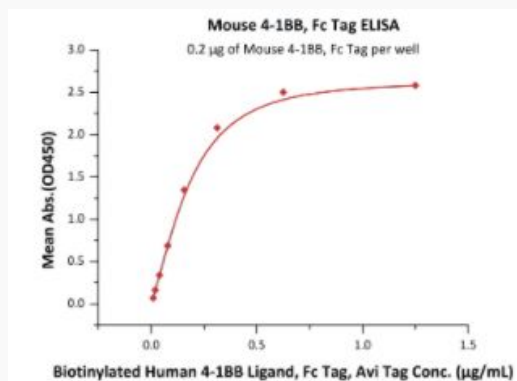
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**Bioactivity-ELISA of
TNFRSF9-347M**



Immobilized Mouse 4-1BB, Fc Tag at 2 µg/mL (100 µL/well) can bind Human 4-1BB Ligand, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 5-78 ng/mL (QC tested).

**Bioactivity-ELISA of
TNFRSF9-347M**



Immobilized Mouse 4-1BB, Fc Tag at 2 µg/mL (100 µL/well) can bind Biotinylated Human 4-1BB Ligand, Fc Tag, Avi Tag with a linear range of 0.01-0.156 µg/mL (Routinely tested).

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