Datasheet for ABIN7198517

CD137 Protein (Fc Tag)

1 Image

Go to Product page

Overview

Quantity:	100 µg
Target:	CD137 (TNFRSF9)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD137 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Mouse 4-1BB/TNFRSF9 Protein (aa 1-211, Fc Tag)(Active)
Sequence:	Met 1-Leu 211
Characteristics:	A DNA sequence encoding the mouse TNFRSF9 (NP_001070976.1) (Met 1-Leu 211) was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized mouse His-TNFSF9 at 10 µg/ml (100 µl/well) can bind mouse TNFRSF9-Fc, The EC50 of mouse TNFRSF9-Fc is 12.0-29.0 ng/ml.

Target Details

Target:	CD137 (TNFRSF9)

Target Details

Alternative Name:	4-1BB/TNFRSF9 (TNFRSF9 Products)
Background:	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-kappaB 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. In addition, CD137 and CD137L are expressed in different human primary tumor tissues, suggesting that they may influence the progression of tumors. Crosslinking of CD137 on activated T cells has shown promise in enhancing anti-tumor immune responses in murine models, and agonistic anti-CD137 antibodies are currently being tested in phase I clinical trials.Immune CheckpointImmune Checkpoint Detection: Antibodies Immune Checkpoint Detection: ELISA AntibodiesImmune Checkpoint ProteinsImmune Checkpoint Targets Co-stimulatory Immune Checkpoint Targets Immunotherapy Cancer Immunotherapy Targeted Therapy Synonym: 4-1BB; A930040I11Rik; AA408498; AI325004; Cd137; CDw137; ILA; Ly63;Secreted CD137 antigen ;Tumor necrosis factor receptor superfamily member 9 ;Tnfrsf9
Molecular Weight:	47 kDa
NCBI Accession:	NP_001070976
Pathways:	Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only

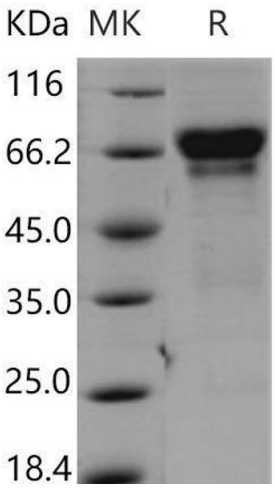
Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C

Handling

Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.