

Datasheet for ABIN7536262

CD137 Protein (His tag)

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Overview

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

Product Details

Purpose:	Active Recombinant Human TNFRSF9/4-1BB/CD137 Protein
Sequence:	LQDPCSNCPA GTFCDNNRNQ ICSPCPPNSF SSAGGQRTCD ICRQCKGVFR TRKECSSTSN AECDCTPGFH CLGAGCSMCE QDCKQGQELT KKGCKDCCFG TFNDQKRGIC RPWTNCSLDG KSVLVNGTKE RDVVCGPSPA DLSPGASSVT PPAPAREPGH SPQ
Specificity:	Leu 24 - Gln 186(Q07011-1)
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1EU/µg
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human TNFRSF9 at 2 µg/mL (100 µL/well) can bind Human TNFSF9 with a linear range of 1-4.4 ng/mL.

Target Details

Target:	CD137 (TNFRSF9)
Alternative Name:	TNFRSF9/4-1BB/CD137 (TNFRSF9 Products)
Background:	Description: 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. Name: ILA, 4-1BB, CD137, CDw137,TNFRSF9
Gene ID:	3604
UniProt:	Q07011
Pathways:	Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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.
Concentration:	0.68 mg/mL
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.