

TNFSF9

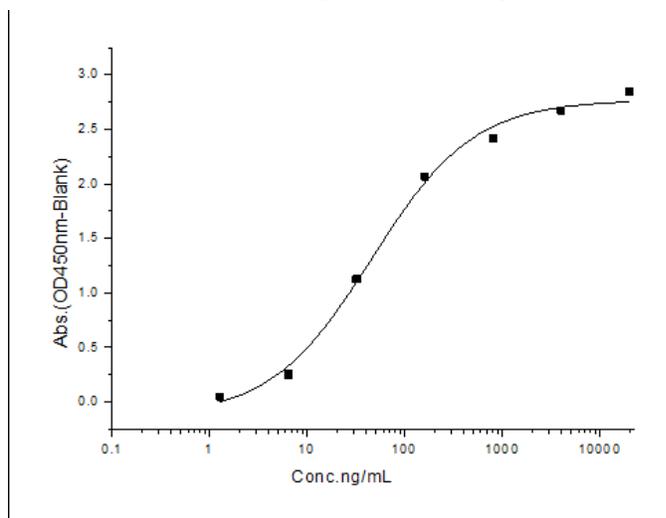
Recombinant Human CD137 / 4-1BB (ECD, Fc Tag)

Catalog No.	CRH382A-Fc CRH382B-Fc	Quantity:	100 µg 200 µg
Alternate Names:	Tumor necrosis factor receptor superfamily member 9, 4-1BB ligand receptor, CDw137, T-cell antigen 4-1BB homolog, T-cell antigen ILA		
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. 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.		
UniProt ID:	Q07011		
Accession Number:	NP_001552.2		
Protein Construction:	A DNA sequence encoding the human TNFRSF9 (Met1-Gln186) was expressed with the Fc region of human IgG1 at the C-terminus.		
Source:	HEK293 Cells		
Molecular Weight:	The recombinant human TNFRSF9 consists of 401 amino acids and predicts a molecular mass of 44 kDa.		
Formulation:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Purity:	> 95 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method		
Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized TNFRSF9-Fc at 10 µg/ml (100 µl/well) can bind TNFSF9/Biotin, The EC50 of TNFSF9/Biotin is 20-60 ng/mL.		
Predicted N-terminal:	Leu 24		

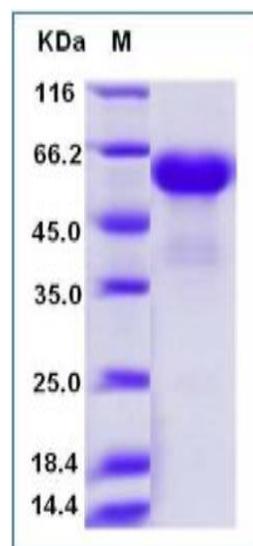
Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C. After reconstitution, store working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

Measured by its binding ability in a functional ELISA. Immobilized recombinant Human TNFRSF9-Fc at 10 µg/ml (100 µl/well) can bind human Fc-TNFSF9/Biotin with a linear range of 1.28-20 µg/ml.



SDS-PAGE



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