

Recombinant Protein Technical Manual

Recombinant Mouse 4BB/TNFRSF9 Protein (aa 1-211, Fc Tag)(Active) RPES4323

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Product SKU: RPES4323

Species: Mouse

Size: 50µg

Expression host: HEK293 Cells

Uniprot: NP_001070976.1

Molecular Mass:	47 kDa	
FIOLEININIONI		

AP Molecular Mass:

Tag:	C-Fc		
Bio-activity:	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 mou TNFRSF9-Fc is 12.0-29.0 ng/ml.		
Purity:	> 90 % as determined by SDS-PAGE		
Endotoxin:	< 1.0 EU per μg of the protein as determined by the LAL method.		
Storage:	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.		
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.		
Formulation:	Lyophilized from sterile PBS, pH 7.4		
Reconstitution:	Please refer to the printed manual for detailed information.		
Application:	Functional ELISA		
Synonyms:	4BB; A930040I11Rik; AA408498; AI325004; Cd137; CDw137; ILA; Ly63;Secreted CD137 antigen ;Tumor necrosis factor receptor superfamily member 9 ;Tnfrsf9		

Sequence: Met 1-Leu 211

Background:

CD137 (also known as 4BB) 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 (4BBL) expressed on several antigen-presenting cells such as macrophages and activated B cells. Upon ligand binding, 4BB 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. 4BB signaling either by binding to 4BBL 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.