Datasheet for ABIN7566053

CD137 Protein (AA 19-184) (Fc Tag)

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Overview

Quantity:	100 µg
Target:	CD137 (TNFRSF9)
Protein Characteristics:	AA 19-184
Origin:	Human, 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:	CD137 (human):Fc (mouse) (rec.)
Cross-Reactivity:	Mouse
Characteristics:	The extracellular domain of human CD137 [4-1BB] (aa 19-184) is fused to the N-terminus of the Fc region of mouse IgG2a.
Purity:	>98 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<5EU/mg protein (LAL test, Lonza).
Biological Activity Comment:	Measured by its binding ability in a functional ELISA.

Target Details

Target:	CD137 (TNFRSF9)
Alternative Name:	CD137 (TNFRSF9 Products)
Background:	Tumor Necrosis Factor Receptor Superfamily Member 9, TNFRSF9, 4-1BB, 4-1BB Ligand Receptor T Cell, Antigen 4-1BB Homolog, T Cell Antigen ILA, CD137 Antigen, CDw137, ILA, MGC2172 Human CD137 (4-1BB) is a costimulatory molecule of the tumor necrosis factor (TNF) receptor superfamily. The glycoprotein 4-1BB 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 receptor-associated factors (TRAF), the adaptor protein and 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 a important role in the amplification of T cell-mediated immune responses. In contrast, it can also enhance activation-induced T cell apoptosis when triggered by engagement of the TCR/CD3 complex. In addition, the 4-1BB/4-1BBL costimulatory pathway has been shown to augment secondary CTL responses to several viruses and increase antitumor immunity. 4-1BB is therefore a promising candidate for immunotherapy of human cancer.
Molecular Weight:	~55kDa (SDS-PAGE)
Pathways:	Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from 0.2μm-filtered solution in PBS.
Handling Advice:	Avoid freeze/thaw cycles.Centrifuge lyophilized vial before opening and reconstitution.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots

are stable for up to 3 months when stored at -20°C.