Datasheet for ABIN5608189

CD137 Protein (partial) (His tag)

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Overview

Quantity:	100 µg
Target:	CD137 (TNFRSF9)
Protein Characteristics:	partial
Origin:	Cynomolgus, Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD137 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA

Product Details

Sequence:	Leu 24 - Gln 186
Purity:	>92 % as determined by SDS-PAGE.
Endotoxin Level:	Endotoxin level is less than 1.0 EU per ug by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Cynomolgus / Rhesus macaque 4-1BB, His Tag at 1 µg/mL (100 uL/well) can bind Human 4-1BB Ligand, Fc Tag with a linear range of 0.05-0.5 ng/mL (QC tested).

Target Details

Target:	CD137 (TNFRSF9)

Target Details

Alternative Name:	4-1BB (TNFRSF9 Products)
Background:	4-1BB is also known as CD137, tumor necrosis factor receptor superfamily member 9 (TNFRSF9), induced by lymphocyte activation (ILA), is a co-stimulatory molecule of the tumor necrosis factor (TNF) receptor superfamily. CD137 can be expressed by activated T cells, but to a larger extent on CD8 than on CD4 T cells. In addition, CD137 expression is found on dendritic cells, follicular dendritic cells, natural killer cells, granulocytes and cells of blood vessel walls at sites of inflammation. The best characterized activity of CD137 is its costimulatory activity for activated T cells. Crosslinking of CD137 enhances T cell proliferation, IL-2 secretion survival and cytolytic activity. Further, it can enhance immune activity to eliminate tumors in mice. CD137 can enhance activation-induced T cell apoptosis when triggered by engagement of the TCR/CD3 complex. In addition, 4-1BB/4-1BBL co-stimulatory pathway has been shown to augment secondary CTL responses to several viruses, and meanwhile augment anti-tumor immunity. 4-1BB thus is a promising candidate for immunotherapy of human cancer. CD137 has been shown to interact with TRAF2.
Molecular Weight:	19.2 kDa
Gene ID:	102127961
NCBI Accession:	XP_005544945
Pathways:	Cancer Immune Checkpoints

Application Details

Application Notes:	This recombinant protein can be used for E, WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C,-80 °C
Storage Comment:	Lyophilized Protein should be stored at -20°C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20°C or -70°C.