Datasheet for ABIN2870713

CD80 Protein (CD80) (AA 38-245) (Fc Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	CD80
Protein Characteristics:	AA 38-245
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD80 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 38-245
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 50.3 kDa. The protein migrates as 66-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD80
Alternative Name:	B7-1 (CD80 Products)

Target Details

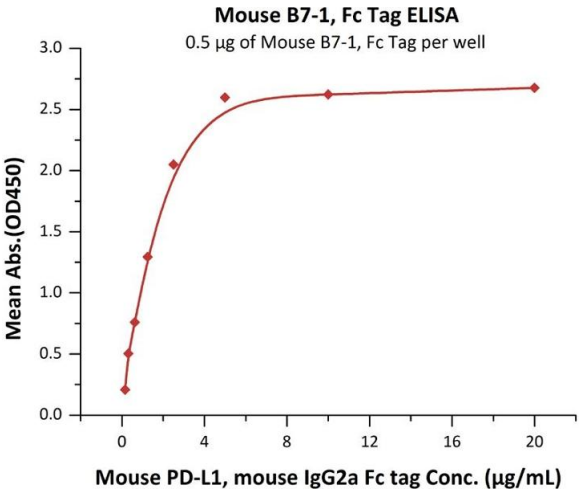
Background:	B7-1 and B7-2, together with their receptors CD28 and CTLA-4, constitute one of the dominant co-stimulatory pathways that regulate T- and B-cell responses. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7-1 and B7-2 with a 20 - 100 fold higher affinity than CD28 and is involved in the down-regulation of the immune response. B-lymphocyte activation antigen B7-1 (referred to as B7) also known as cluster of Differentiation 80 (CD80), is a member of cell surface immunoglobulin superfamily and is expressed on activated B cells, activated T cells, macrophages and dendritic cells. It is the ligand for two different proteins on the T cell surface: CD28 (for autoregulation and intercellular association) and CTLA-4 (for attenuation of regulation and cellular disassociation). CD80 works in tandem with CD86 to prime T cells. CD80 plays a role in induction of innate immune responses by activating NF-κB-signaling pathway in macrophages. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.
Molecular Weight:	50.3 kDa
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Positive Regulation of Immune Effector Process, Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only

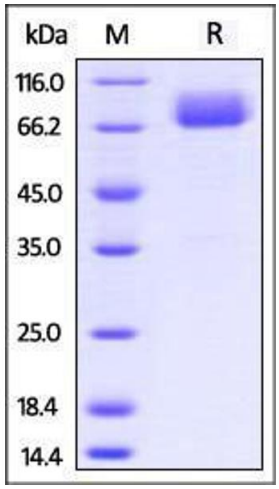
Handling

Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



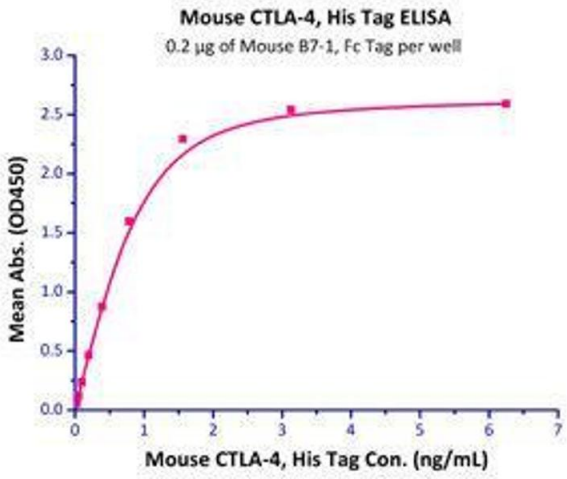
ELISA

Image 1. Immobilized Mouse B7-1, Fc Tag (ABIN2870712,ABIN2870713) at 5 μg/mL (100 μL/well) can bind Mouse PD-L1, mouse IgG2a Fc tag, low endotoxin (ABIN4949184,ABIN4949185) with a linear range of 0.16-2.5 μg/mL (Routinely tested).



SDS-PAGE

Image 2. Mouse B7-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

Image 3. Immobilized Mouse B7-1, Fc Tag (Cat# CD0-M5259) at 2 μg/mL (100 μl/well),can bind Mouse CTLA-4, His Tag (Cat# CT4-M52H5) with a linear range of 0.02-0.8 ng/mL.