Datasheet for ABIN2180618

CD86 Protein (CD86) (AA 26-247) (His tag)

Go to Product page

3 Images

Overview

Quantity:	100 µg
Target:	CD86
Protein Characteristics:	AA 26-247
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD86 protein is labelled with His tag.

Product Details

Sequence:	AA 26-247
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 26.7 kDa. The protein migrates as 43-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD86

Target Details

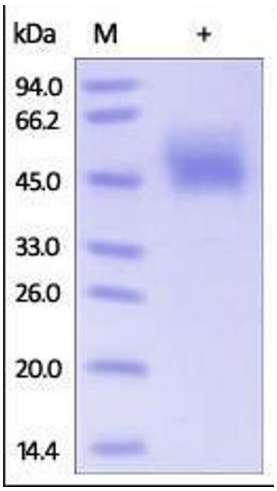
Alternative Name:	B7-2 (CD86 Products)
Background:	Cluster of Differentiation 86 (CD86) is also known as B-lymphocyte activation antigen B7-2, is a type I membrane protein that is a member of the immunoglobulin superfamily, and is constitutively expressed on interdigitating dendritic cells, Langerhans cells, peripheral blood dendritic cells, memory B cells, and germinal center B cells. Additionally, B72 is expressed at low levels on monocytes and can be upregulated through interferon γ. CD86 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). CD86 works in tandem with CD80 to prime T cells. Recent study has revealed that B7-2 promotes the generation of a mature APC repertoire and promotes APC function and survival. Furthermore, the B7 proteins are also involved in innate immune responses by activating NF-κB-signaling pathway in macrophages. CD86 thus is regarded as a promising candidate for immune therapy. CD86+ macrophages in Hodgkin lymphoma patients are an independent marker for potential nonresponse to firstline-therapy.
Molecular Weight:	26.2 kDa
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, Activated T Cell Proliferation

Application Details

Restrictions:	For Research Use only

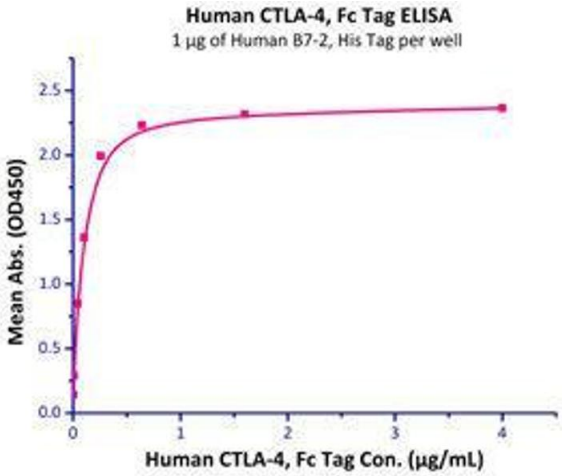
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



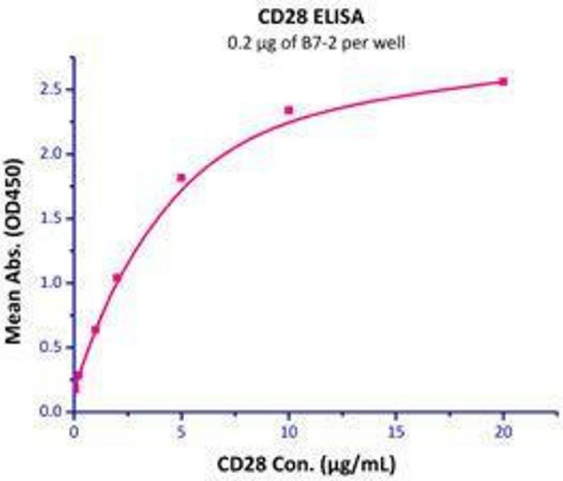
SDS-PAGE

Image 1. Human B7-2, His 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 2. Immobilized Human B7-2, His Tag (Cat# CD6-H5223) at 10 µg/mL (100 µl/well), can bind Human CTLA-4, Fc Tag (Cat# CT4-H5255) with a linear range of 0.04-0.3 µ g/mL.



Binding Studies

Image 3. Immobilized Human B7-2, His Tag (Cat# CD6-H5223) at 2µg/mL (100 µl/well),can bind Human CD28, Fc Tag (Cat# CD8-H5257) with a linear of 0.01-5 µg/mL.

