

Datasheet for ABIN2180839

## CD80 Protein (CD80) (AA 35-242) (His tag)



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### 4 Images

#### Overview

Quantity:	100 µg
Target:	CD80
Protein Characteristics:	AA 35-242
Origin:	Cynomolgus, Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD80 protein is labelled with His tag.

#### Product Details

Sequence:	AA 35-242
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 25.8 kDa. The protein migrates as 43-55 kDa under reducing (R) condition (SDS-PAGE) due to different 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.
Grade:	HPLC verified

#### Target Details

Target:	CD80
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## Target Details

Alternative Name: B7-1 ([CD80 Products](#))

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- $\kappa$ B- signaling pathway in macrophages. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.

Molecular Weight: 25.8 kDa

UniProt: [G7NXN7](#)

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

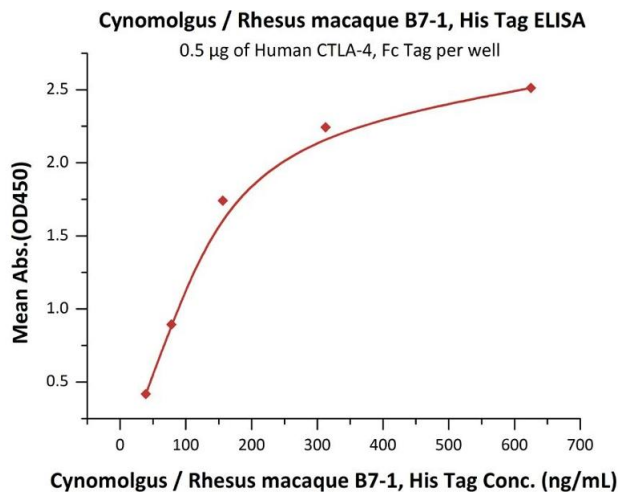
Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

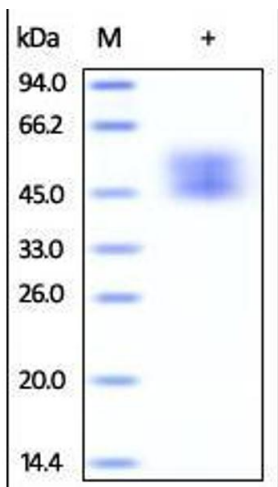
Storage: -20 °C

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).



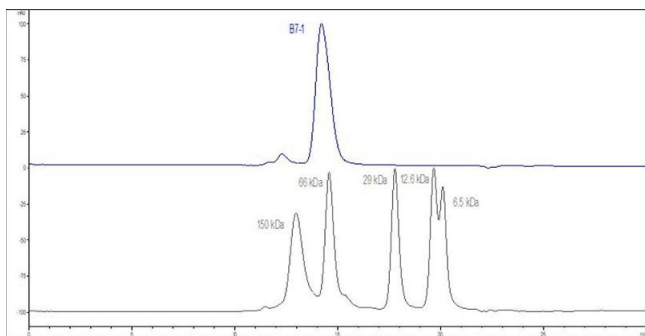
**ELISA**

**Image 1.** Immobilized Human CTLA-4, Fc Tag (ABIN2180932,ABIN2180931) at 5 µg/mL (100 µL/well) can bind Cynomolgus / Rhesus macaque B7-1, His Tag (Hied) (ABIN2180840,ABIN2180839) with a linear range of 10-156 ng/mL (Routinely tested).



**SDS-PAGE**

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



**High Pressure Liquid Chromatography**

**Image 3.** The purity of Cynomolgus / Rhesus macaque B7-1, His Tag (Hied) (ABIN2180840,ABIN2180839) was more than 90 % as determined by .

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2180839.