

Datasheet for ABIN2180845

**CD80 Protein (CD80) (AA 35-242) (Fc Tag)****4** Images**3** Publications[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CD80
Protein Characteristics:	AA 35-242
Origin:	Human
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 35-242
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 50 kDa. The protein migrates as 70-90 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.
Grade:	HPLC verified

## Target Details

Target:	CD80
Alternative Name:	B7-1 ( <a href="#">CD80 Products</a> )
Background:	<p>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.</p>
Molecular Weight:	50.0 kDa
NCBI Accession:	<a href="#">NP_005182</a>
Pathways:	<a href="#">TCR Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Cancer Immune Checkpoints</a>

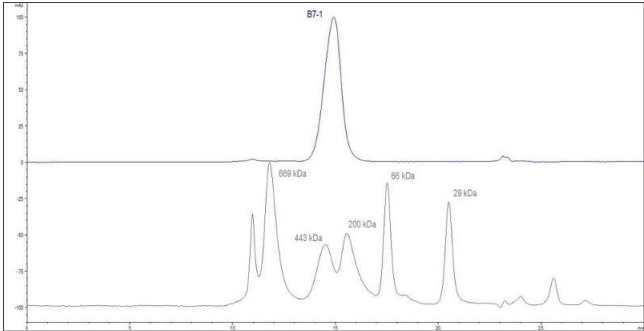
## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, pH 7.5
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).

Publications

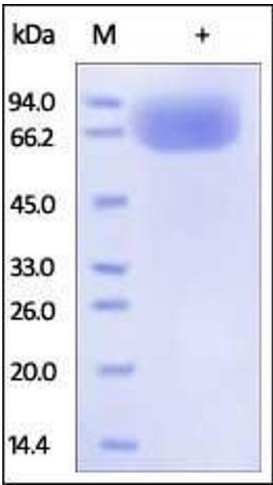
Product cited in: Yu, Huang, Chen, Liu, Wu, Pu, Wang, Kang, Zhou: "Characterization of a novel anti-human lymphocyte activation gene 3 (LAG-3) antibody for cancer immunotherapy." in: **mAbs**, Vol. 11, Issue 6, pp. 1139-1148, (2019) ([PubMed](#)).

Images



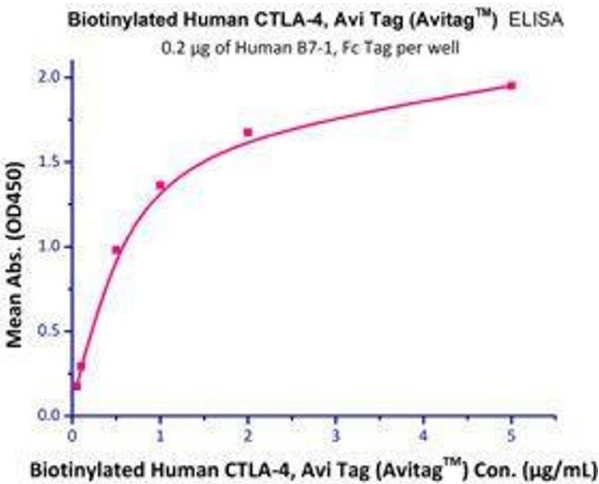
High Pressure Liquid Chromatography

**Image 1.** The purity of Human B7-1, Fc Tag (Hied)(Cat.# ABIN2180846,ABIN2180845) was greater than 95 % as determined by .



SDS-PAGE

**Image 2.** Human B7-1, Fc 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%.



Binding Studies

**Image 3.** Immobilized Human B7-1, Fc Tag (HPLC-verified) with a linear range of 50 - 500 ng/mL.

## Images

---

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2180845.