

Recombinant Cynomolgus/Rhesus macaque CD86 protein, His-tagged (HPLC-verified)

Cat. No. CD86-172C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus/Rhesus macaque CD86 protein (Ala19-His240), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293). In the region Ala19-His240, the AA sequence of Cynomolgus and Rhesus macaque CD86 are homologous.
Species	Cynomolgus/Rhesus macaque
Source	HEK293
ProteinLength	222
Description	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- κ B-signaling pathway in macrophages. CD86 thus is regarded as a promising candidate

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for immune therapy. CD86+ macrophages in Hodgkin lymphoma patients are an independent marker for potential nonresponse to firstline-therapy.

Form Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.

Molecular Mass The protein has a calculated MW of 27.3 kDa. The protein migrates as 50-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin Less than 1.0 EU per ug by the LAL method.

Purity >95% as determined by SDS-PAGE.

Storage

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20 centigrade to -70 centigrade for 12 months in lyophilized state;
- 70 centigrade for 3 months under sterile conditions after reconstitution.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name CD86

Official Symbol CD86

Synonyms CD86; CD86 molecule; CD28LG2, CD86 antigen (CD28 antigen ligand 2, B7 2 antigen); T-lymphocyte activation antigen CD86; B lymphocyte antigen B7 2; B7 2; B7.2; BU63; FUN-1; CTLA-4 counter-receptor B7.2; B-lymphocyte activation antigen

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B7-2; CD86 antigen (CD28 antigen ligand 2, B7-2 antigen); B70; B7-2; LAB72;
CD28LG2; MGC34413

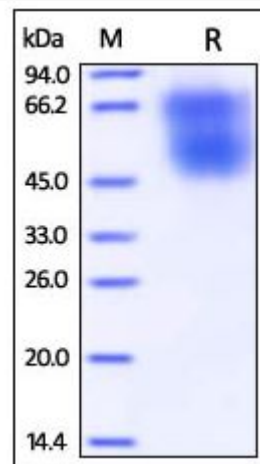
Gene ID 102147235

mRNA Refseq XM_005547997.2

Protein Refseq XP_005548054.1

UniProt ID G7NXR4

**SDS-PAGE of CD86-
172C**



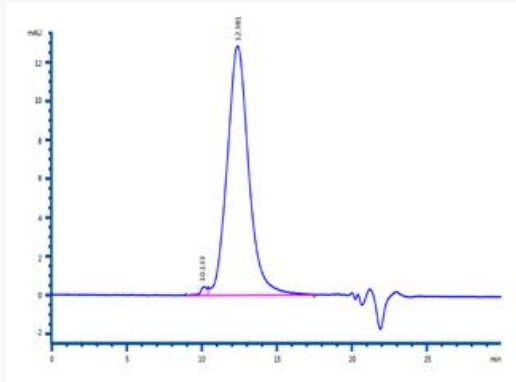
Cynomolgus/Rhesus macaque B7-2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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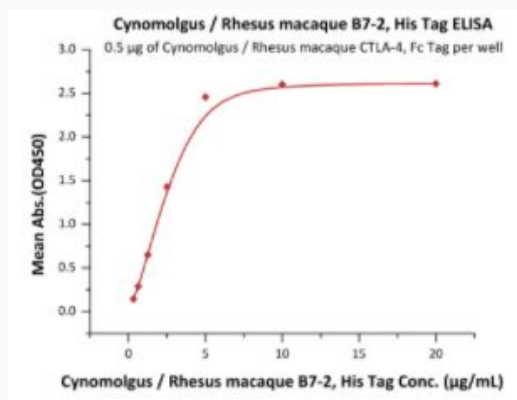
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SEC-HPLC of CD86-172C



The purity of Cynomolgus/Rhesus macaque B7-2, His Tag (HPLC-verified) was more than 95% as determined by SEC-HPLC.

Bioactivity-ELISA of CD86-172C



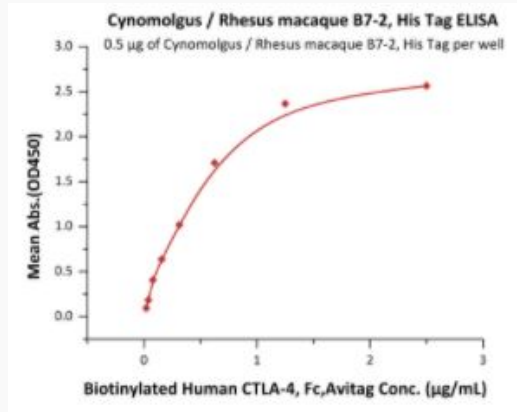
Immobilized Cynomolgus/Rhesus macaque CTLA-4, Fc Tag at 5 µg/mL (100 µL/well) can bind Cynomolgus/Rhesus macaque B7-2, His Tag (HPLC-verified) with a linear range of 0.312-5 µg/mL (QC tested).

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**Bioactivity-ELISA of
CD86-172C**



Immobilized Cynomolgus/Rhesus macaque B7-2, His Tag (HPLC-verified) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CTLA-4, Fc, Avitag with a linear range of 0.02-0.625 µg/mL (Routinely tested).

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