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 homologus.
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-κB-signaling pathway in macrophages. CD86 thus is regarded as a promising candidate

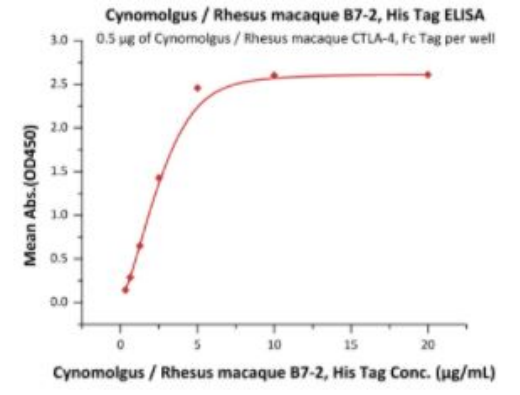
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Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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℃ before opening to recover the entire contents.

GENE INFORMATION

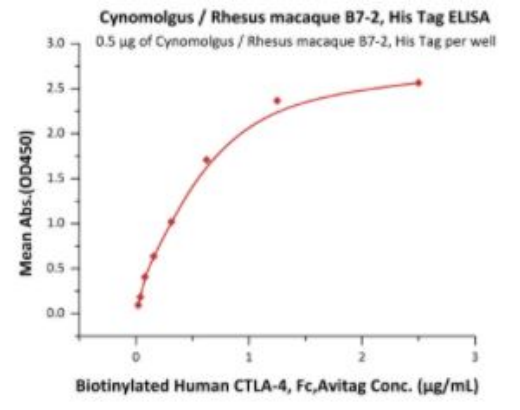
Gene Name	CD86
Official Symbol	CD86
Synonyms	CD86; CD86 molecule; CD28LG2, CD86 antigen (CD28 antigen ligand 2, B7 2 antigen); T-lymphocyte activation antigen CD86; B lymphocyte antigen B7 2; B7 2; B7.2; BU63; FUN-1; CTLA-4 counter-receptor B7.2; B-lymphocyte activation antigen

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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
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).

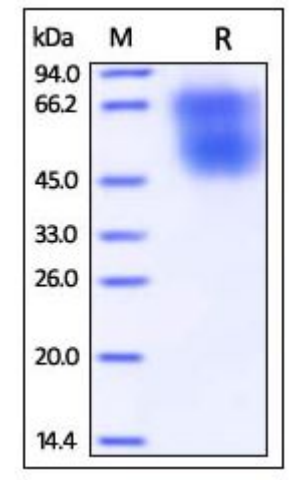
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Bioactivity-ELISA of CD86-172C



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).

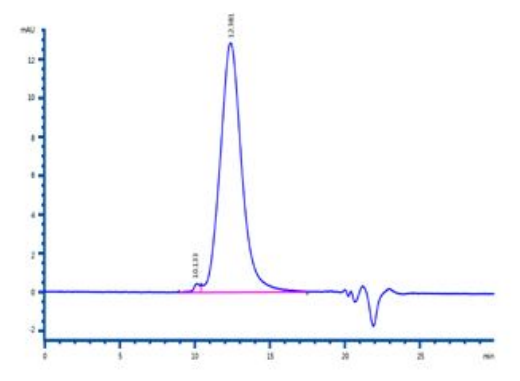
SDS-PAGE of CD86-172C



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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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.

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