

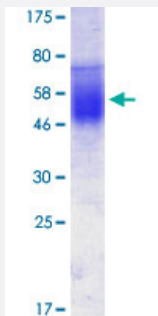
HuPro®

CD86 (Human) Recombinant Protein

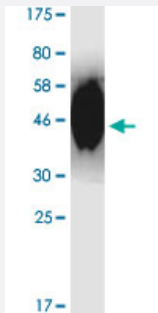
Catalog # H00000942-H01

Size 25 ug

Applications



SDS-PAGE Gel



Western Blot

Specification

Product Description

Purified CD86 (AAH40261.1, 24 a.a. - 246 a.a.) human recombinant protein with His-Flag-StrepII tag at N-terminus expressed in human cells.

Transfected Cell Line

Human HEK293T cells

Sequence

APLKIQAYFNETADLPCQFANSQNQSLSELVFWQDQENLVLNEVYLGKEKFDSVHSKYMGRTS
FDSDSWTLRLHNLQIKDKGLYQCIIHHKKPTGMIRIHMNSELSVLNFSQPEVPISNITENVYINLTC
SSIHGYPEPKKMSVLLRTKNSTIEYDGIMQKSQDNVTELYDVSISLSVSFPDVTSNMTIFCILETDKT
RLLSSPFSIELEDPPPPDHI

Host

Human

Theoretical MW (kDa)

29.81

Interspecies Antigen Sequence	Mouse (59); Rat (59)
Form	Liquid
Preparation Method	Transfection of pSuper-CD86 plasmid into HEK293T cell, and the expressed protein was purified by <i>Strep</i> -Tactin affinity column.
Purification	<i>Strep</i> -Tactin affinity columns
Concentration	≥ 10 ug/ml
Quality Control Testing	SDS-PAGE and Western Blot SDS-PAGE Gel Western Blot
Storage Buffer	100 mM Tris-HCl pH 8.0, 150 mM NaCl, 1 mM EDTA, and 5 mM desthiobiotin.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay
- SDS-PAGE
- Protein Interaction

Gene Info — CD86

Entrez GeneID	942
GeneBank Accession#	BC040261.1
Protein Accession#	AAH40261.1
Gene Name	CD86
Gene Alias	B7-2, B70, CD28LG2, LAB72, MGC34413
Gene Description	CD86 molecule
Omim ID	601020

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in two transcript variants encoding different isoforms. Additional transcript variants have been described, but their full-length sequences have not been determined. [provided by RefSeq]

Other Designations

B-lymphocyte activation antigen B7-2|B7-2 antigen|CD28 antigen ligand 2|CD86 antigen|CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)|CTLA-4 counter-receptor B7.2

Pathway

- [Allograft rejection](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Graft-versus-host disease](#)
- [Systemic lupus erythematosus](#)
- [Toll-like receptor signaling pathway](#)
- [Type I diabetes mellitus](#)

Disease

- [Acute Disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Colorectal Neoplasms](#)

- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Eruptions](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Multiple Sclerosis](#)
- [Papillomavirus Infections](#)
- [Pemphigus](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Sarcoidosis](#)
- [Scleroderma](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)

- [Werner syndrome](#)