CD86 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD86, Polyclonal Antibody
Full Product Name	CD86 Rabbit pAb
Product Gene Name	anti-CD86 antibody
Product Synonym Names	B70; B7-2; B7.2; LAB72; CD28LG2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	80kDa
OMIM	601020
3D Structure	ModBase 3D Structure for P42081
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 30-247 of human CD86 (NP_787058.4).
Cellular Localization	Cell Membrane, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD86 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-CD86 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-CD86 antibody	Receptor involved in the costimulatory signal essential for T-lymphocyte proliferation and interleukin-2 production, by binding CD28 or CTLA-4. May play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T-cells within 24 hours after activation. Isoform 2 interferes with the formation of CD86 clusters, and thus acts as a negative regulator of T-cell activation. (Microbial infection) Acts as a receptor for adenovirus subgroup B.
Other Notes	Small volumes of anti-CD86 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD86 purchase	MBS8544305 is an antibody targeting CD86. Also known as CD86 Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD86. It may not necessarily be applicable to this product.

NCBI GI #	317373339

NCBI GeneID	942
NCBI Accession #	P42081.2
UniProt Primary Accession #	P42081
UniProt Related Accession #	P42081
NCBI Official Full Name	T-lymphocyte activation antigen CD86
NCBI Official Synonym Full Names	CD86 molecule
NCBI Official Symbol	CD86
NCBI Official Synonym Symbols	B70; B7-2; B7.2; LAB72; CD28LG2
UniProt Protein Name	T-lymphocyte activation antigen CD86
UniProt Synonym Protein Names	Activation B7-2 antigen; B70; BU63; CTLA-4 counter-receptor B7.2; FUN-1; CD_antigen: CD86
Protein Family	T-lymphocyte activation antigen
UniProt Gene Name	CD86
UniProt Synonym Gene Names	CD28LG2
UniProt Entry Name	CD86_HUMAN
NCBI Protein Information	T-lymphocyte activation antigen CD86
NCBI Summary for CD86	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 several transcript variants encoding different isoforms.[provided by RefSeq, May 2011]
UniProt Comments for CD86	CD86: Receptor involved in the costimulatory signal essential for T-lymphocyte proliferation and interleukin-2 production, by binding CD28 or CTLA-4. May play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T- cells within 24 hours after activation. Isoform 2 interferes with the formation of CD86 clusters, and thus acts as a negative regulator of T-cell activation. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Immunoglobulin superfamily; Membrane protein, integral Chromosomal Location of Human Ortholog: 3q21 Cellular Component: cell surface; intracellular membrane-bound organelle; plasma membrane; integral to membrane; external side of plasma membrane Molecular Function: protein binding; coreceptor activity; receptor activity; receptor binding Biological Process: positive regulation of lymphotoxin A biosynthetic process; negative regulation of T cell anergy; T cell activation; viral reproduction; nerve growth factor receptor signaling pathway; positive regulation of transcription, DNA-dependent; positive regulation of interleukin-2 biosynthetic process; myeloid dendritic cell differentiation; positive regulation of activated T cell proliferation; positive regulation of interleukin-4 biosynthetic process; positive regulation of T-helper 2 cell differentiation; cell-cell signaling; T cell proliferation during immune response; positive regulation of cell proliferation; response to yeast; defense response to virus; aging; response to drug; epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; B cell activation; T cell costimulation; toll-like receptor signaling pathway; innate immune response; immune response
Research Articles on CD86	**1.** Examining the mRNA expression levels of CD80 and CD86 genes between colon polyps with the rectal polyps shows that the enhanced level of CD86 in adenoma samples could be considered as a valuable biomarker for distinguishing the adenoma from hyperplastic polyps and the masses located in the colon from the rectum.

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