CD86 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	CD86, Monoclonal Antibody
Full Product Name	Recombinant Anti-CD86 Antibody (Biotin), Rabbit Monoclonal
Product Gene Name	anti-CD86 antibody
Product Synonym Names	CD86/B7-2/B70 Antibody (Biotin), Rabbit MAb; CD86 antigen; Anti-B7-2 Antibody; Anti-B7.2 Antibody; Anti-B70 Antibody; Anti-CD28LG2 Antibody; Anti-LAB72 Antibody
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	118
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Human CD86/B7-2/B70
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	28,420 Da
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human CD86 protein
Conjugation	Biotin
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human CD86/B7-2 (rh CD86)and then biotinylated.
Product Categories/Family for anti-CD86 antibody	Cancer Drug Targets
Applications Tested/Suitable for anti-CD86 antibody	ELISA (EIA)
Application Notes for anti-CD86 antibody	ELISA: 0.1-1ug/ml
Related Product Information for anti-CD86 antibody	CD86, also known as B-lymphocyte activation antigen B7-2 (referred to as B70), is a member of the cell surface immunoglobulin superfamily. B7-2 exists predominantly as a monomer on cell surfaces and interacts with two co-stimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells, and thus induces the signal pathways which regulate T cell activation and tolerance, cytokine production, and the generation of CTL. It is indicated that contacts between B and T helper cells mediated by CD86 encourage signals for the proliferation and IgG secretion of normal B cells and B cell lymphomas. A recent study has revealed that CD86 also promotes the generation of a mature APC repertoire and promotes APC function and survival. CD86 has an important role in chronic hemodialysis, allergic pulmonary inflammation, arthritis, and antiviral responses, and thus is regarded as a promising candidate for immune therapy.

Product References and Citations for anti-CD86 antibody	Chen YQ, et al. (2006) CD28/CTLA-4--CD80/CD86 and ICOS--B7RP-1 costimulatory pathway in bronchial asthma. Allergy. 61(1): 15-26.Rau FC, et al. (2009) B7-1/2 (CD80/CD86) direct signaling to B cells enhances IgG secretion. J Immunol. 183(12): 7661-71.Dai ZS, et al. (2009) Defective expression and modulation of B7-2/CD86 on B cells in B cell chronic lymphocytic leukemia. Int J Hematol. 89(5): 656-63.
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	MBS8103602 is an antibody targeting CD86. Also known as Recombinant Anti-CD86 Antibody (Biotin), Rabbit Monoclonal. 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 #	91208433
NCBI GeneID	942
NCBI Accession #	NP_008820.2
UniProt Secondary Accession #	Q13655; Q6FHB1; Q6GTS4; Q7M4L5; A0N0P0; B7Z2F3; B7Z702; E7ETN5; E9PC27
UniProt Related Accession #	P42081
GenBank Nucleotide #	NM_006889.3
NCBI Official Full Name	T-lymphocyte activation antigen CD86 isoform 2
NCBI Official Synonym Full Names	CD86 molecule
NCBI Official Symbol	CD86
NCBI Official Synonym Symbols	B70; B7-2; B7.2; LAB72; CD28LG2
Protein Family	T-lymphocyte activation antigen
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]
Research Articles on CD86	**1.** B-cells from patients tolerant to the graft maintained higher IL-10 production after CD40 ligation, which correlates with lower CD86 expression compared to patients with chronic rejection.
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