CD86/B7-2 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD86/B7-2, Monoclonal Antibody
Full Product Name	Anti-Mouse CD86/B7-2 Antibody (GL1), APC
Product Gene Name	anti-CD86/B7-2 antibody
Product Synonym Names	BU63; B70; CD28LG2; CTLA-4 counter-receptor B7.2; Activation B7-2 antigen; T-lymphocyte activation antigen CD86; CD86; FUN-1
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	GL1
Host	Rat
Species Reactivity	Mouse
Form/Format	Liquid; 0.01M PBS, pH 7.4, 0.2% BSA, 0.05% Proclin 300.
Concentration	0.5mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months. Protect from light. Do not freeze.
Molecular Weight	Predicted: 36 kDa Observed: 68 kDa
OMIM	U04343 mRNA
3D Structure	ModBase 3D Structure for P42082
Conjugation	APC
Product Categories/Family for anti-CD86/B7-2 antibody	Super-Affinity Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD86/B7-2 antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD86/B7-2 antibody	MBS1585932 is an antibody targeting CD86/B7-2. Also known as Anti-Mouse CD86/B7-2 Antibody (GL1), APC. Reactive in Mouse. Host: Rat.
Other Notes	Small volumes of anti-CD86/B7-2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD86/B7-2. It may not necessarily be applicable to this product.

NCBI GI #	332634934
NCBI GeneID	942
NCBI Accession #	NP_787058
UniProt Primary Accession #	P42082

UniProt Secondary Accession #	Q13655; Q6FHB1; Q6GTS4; Q7M4L5; A0N0P0; B7Z2F3; B7Z702; E7ETN5; E9PC27
UniProt Related Accession #	P42081
GenBank Nucleotide #	NM_175862.4
NCBI Official Full Name	T-lymphocyte activation antigen CD86 isoform 1
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
UniProt Gene Name	CD86
UniProt Synonym Gene Names	CD28LG2
NCBI Protein Information	T-lymphocyte activation antigen CD86
NCBI Summary for CD86/B7-2	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/B7-2	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: 3q13.33 Cellular Component: cell surface; integral to membrane; plasma membrane Molecular Function: phosphatidylinositol-4,5-bisphosphate 3-kinase activity; protein binding; receptor activity Biological Process: cell-cell signaling; immune response; phosphoinositide-mediated signaling; positive regulation of cell proliferation; regulation of phosphoinositide 3-kinase cascade; T cell activation; T cell costimulation
Research Articles on CD86/B7-2	**1.** CD86 variants association with susceptibility to multiple sclerosis in Iranian population.
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