

Rat anti-Mouse CD86 Monoclonal Antibody | anti-CD86 antibody

Anti-CD86 [PO.3]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72102	Rat	Mouse	Functional Assay, Immunohistochemistry, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD86; Monoclonal Antibody; Anti-CD86 [PO.3]; B7-2; PO3; Activation B7-2 antigen; B-lymphocyte activation antigen B7-2; B-lymphocyte antigen B7-2; B7.2; CD28 antigen ligand 2; CD28LG2; early T cell costimulatory molecule-1; early T-cell costimulatory molecule 1; ETC-1; LAB72; MGC34413; T-lymphocyte activation antigen CD86; anti-CD86 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG2b, kappa
Clone Number	PO.3
Specificity	This antibody is specific for murine CD86, an ~80 kDa surface receptor of the B7 family of costimulatory molecules. In addition to CD80, CD86 is a counter-receptor for the T cell surface molecules CD28 and CD152 (CTLA-4). This interaction plays a critical role in T-B crosstalk, T cell costimulation, autoantibody production and Th2-mediated Ig production.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD86 antibody	FA (Functional Assay), Blocking, IHC (Immunohistochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)
PMID	7489744
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of fixed RAW264.7 cells with anti-CD86 antibody PO.3 (B467)
Immunofluorescence analysis of paraformaldehyde fixed RAW264.7 cells on Shi-fix coverslips stained with the chimeric rabbit IgG version of PO.3 at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD86 antibody	Recombinant monoclonal antibody to CD86. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma PO.3. This antibody was raised by immunising Sprague Dawley rats with a mouse B cell line, BCL1 and fusing immune splenocytes with P3U1 myeloma cells.
Product Categories/Family for anti-CD86 antibody	immunology ; costimulation ; immune-checkpoint ; T cells ; B cells
References	Atsuo Nakajima et al. Preferential dependence of autoantibody production in murine lupus on CD86 costimulatory molecule Eur J Immunol. 1995 Nov;25(11):3060-9. Note on publication: Describe the use of this antibody, together with the anti-CD80 antibody, to confirm the preferential dependence of murine Ab-mediated autoimmunity on the CD86 costimulatory molecule.

NCBI AND UNIPROT INFORMATION

NCBI GI #	332634934
NCBI GeneID	942
NCBI Accession #	NP_787058
NCBI GenBank Nucleotide #	NM_175862.4
UniProt Accession #	P42082 ; Q13655 ; Q6FHB1 ; Q6GTS4 ; Q7M4L5 ; A0N0P0 ; B7Z2F3 ; B7Z702 ; E7ETN5 ; E9PC27 ; P42081
Molecular Weight	Predicted: 36 kDa Observed: 68 kDa
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
NCBI Protein Information	T-lymphocyte activation antigen CD86
UniProt Protein Name	T-lymphocyte activation antigen CD86
UniProt Gene Name	CD86
UniProt Synonym Gene Names	CD28LG2

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