

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

CD86 (Dendritic Cells Maturation Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215436	Mouse	Human	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

CD86; Monoclonal Antibody; CD86 (Dendritic Cells Maturation Marker); Activation B7-2 antigen; B lymphocyte activation antigen B72; CD28 antigen ligand 2; CD28LG2; CLS1; CTLA-4 counter-receptor B7.2; Early T-cell co-stimulatory molecule 1; ETC-1; FUN-1; LAB72; Ly-58; MB7-2; TS/A-2; anti-CD86 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	C86/3716
Specificity	Recognizes a protein of 70kDa, which is identified as CD86. CD86 is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is expressed at high levels on resting peripheral monocytes and dendritic cells and at very low density on resting B and T lymphocytes. CD86 expression is rapidly upregulated by B cell specific stimuli with peak expression at 18 to 42 hours after stimulation. CD86, along with CD80/B71, is an important accessory molecule in T cell co-stimulation via its interaction with CD28 and CD152/CTLA4. Since CD86 has rapid kinetics of induction, it is believed to be the major CD28 ligand expressed early in the immune response. It is also found on malignant Hodgkin and Reed Sternberg (HRS) cells in Hodgkins disease.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Applicable Applications for anti-CD86 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	Recombinant fragment (around aa 66-195) of Human CD86 protein (exact sequence is proprietary)
Cellular Localization	Cell Surface
Hu-chromosome Location	3q13.33
Positive Control	293T or Jurkat cells. Monocytes and dendritic cells, activated T, B and natural killer cells in Lymph node or Tonsil.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using CD86-Monospecific Mouse Monoclonal Antibody (C86/3716)Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SDbs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDbs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified CD86 Mouse Monoclonal Antibody (C86/3716). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human lung carcinoma stained with CD86 Mouse Monoclonal Antibody (C86/3716).



WB (Western Blot)

Western Blot Analysis of Ramos cell lysate using CD86 Mouse Monoclonal Antibody (C86/3716).

ADDITIONAL INFORMATION

References	Engel P et. al. Blood. 1994;84(5):1402-7.
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NCBI AND UNIPROT INFORMATION

NCBI GeneID	942
UniProt Accession #	P4208; P42081
Molecular Weight	70kDa
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

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.