

Rat anti-Mouse CD86/B7-2 Monoclonal Antibody | anti-LOC554318 antibody

Rat Anti-Mouse CD86/B7-2-PE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78679	Rat	Mouse	Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD86/B7-2; Monoclonal Antibody; Rat Anti-Mouse CD86/B7-2-PE; Rat Anti-Mouse CD86/B7-2 - Phycoerythrin-Labeled; Rat Anti-Mouse CD86/B7-2; anti-LOC554318 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat (Louvain) IgG2a kappa
Clone Number	GL1
Specificity	Mouse CD86, the B7-2 co-stimulatory molecule and a ligand for CD28 and CD152/CTLA-4 CD86, also known as B7-2, 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.^1-5 CD86 expression is rapidly upregulated by B-cell specific stimuli with peak expression at 18-42 hours after stimulation.^1, 5 CD86, along with CD80/B7-1, is an important accessory molecule in T cell costimulation via its interaction with CD28 and CD152/CTLA-4. Since CD86 has rapid kinetics of induction, it is believed to be the major CD28 ligand expressed early in the immune response.^1-9 The monoclonal antibody GL1 blocks mixed lymphocyte reactions and stimulation of T cells by antigen-presenting cells.^1, 3, 5
Form/Format	R - phycoerythrin (R - PE) Conjugate
Sequence Length	325
Applicable Applications for anti-LOC554318 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	LPS-activated mouse B cells
Characterization	To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested by flow cytometry to conform to characteristics of a standard reference. Representative flow data are included in this product insert.
Preparation and Storage	The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. No preservatives or aminecontaining buffer salts added. Store at 2-8 degree C. The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The R-phycoerythrin (R-PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The Spectral Red (SPRD) and R-phycoerythrin-Cyanine 7 (R-PE-CY 7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Aliquot and store at or below -20 degree C. Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20 degree C immediately upon receipt. Each reagent is stable for the period shown on the bottle label if stored as directed.

ADDITIONAL INFORMATION

References	1. Hathcock, K., G. Laszlo, C. Pucello, O. Linsley, and R.J. Hodes. 1994. J. Exp. Med. 180:631. 2. Freeman, G.J., F. Borriello, R.J. Hodes, H. Reiser, K.S. Hathcock, G. Laszlo, A.J. McKnight, J. Kim, L. Du, D.B. Lombard, G.S. Gray, L.M. Nadler, and A.H. Sharpe. 1993. Science 262:907. 3. Inaba, K. M. Witmer-Pack, M. Inaba, K.S. Hathcock, H. Sakuta, et al. 1994. J. Exp. Med. 180:1849. 4. Larsen, C.P., S.C. Ritchie, R. Hendrix, P.S. Linsley, K.S. Hathcock, R.J. Hodes, R.P. Lowry, and T.C. Pearson. 1994. J. Immunol. 152:5208. 5. Hathcock, K.S., G. Laszlo, C. Pucillo, P. Linsley, and R.J. Hodes. 1994. J. Exp. Med. 180:631. 6. Laszlo, G., K.S. Hathcock, H.B. Dickler, and R.J. Hodes. 1993. J. Immunol. 150:5252. 7. Hathcock, K., G. Laszlo, H. Dickler, J. Bradshaw, P. Linsley, and R. Hodes. 1993. Science 262:905. 8. Thompson, C.B. 1995. Cell 978:982. 9. June, C.H., J.A. Bluestone, L.M. Nadler, and C.B. Thompson. 1994. Immuol. Today 15:321. 10. Han, S. et. al. 1995. J. Immunol. 155:556.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	84000438
NCBI GeneID	554318
NCBI Accession #	NP_001033105.1
NCBI GenBank Nucleotide #	NM_001038016.1
NCBI Official Full Name	CD86/B7-2 costimulatory molecule
NCBI Official Symbol	LOC554318
NCBI Protein Information	CD86/B7-2 costimulatory molecule; CD86 antigen; B7-1 costimulatory molecule

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.