

Rat anti-Mouse CD80/B7-1 Monoclonal Antibody | anti-LOC554317 antibody

Rat Anti-Mouse CD80/B7-1-PE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78678	Rat	Mouse	Immunoprecipitation, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD80/B7-1; Monoclonal Antibody; Rat Anti-Mouse CD80/B7-1-PE; Rat Anti-Mouse CD80/B7-1 - Phycoerythrin-Labeled; Rat Anti-Mouse CD80/B7-1; anti-LOC554317 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG2a kappa
Clone Number	1G10
Specificity	Mouse CD80 (B7-1), Mr 45-47 kDa CD80 (B7-1) is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed by dendritic cells, monocytes, and peritoneal macrophages. Expression of CD80 on B cells is upregulated after activation by various means including stimulation by LPS, IL- 4, and surface Ig receptor cross linking with peak expression occurring between 48 and 72 hours postactivation. ^1-4 The interaction of CD80/B7-1 with its ligands, CD28 and CD152/CTLA-4, provides a potent costimulatory signal for T cells activated through the CD3/T cell receptor complex.^5, 6 The monoclonal antibody 1G10 blocks binding of CTLA-4 to CD80, but it does not block stimulation of T cells by natural antigenpresenting cells. ^2, 7
Form/Format	R - phycoerythrin (R - PE) Conjugate
Sequence Length	302
Applicable Applications for anti-LOC554317 antibody	IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
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 reagent. Representative 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 amine-containing 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) 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 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. Nabavi, N., G. J. Freeman, A. Gault, D. Godfrey, L. M. Nadler, and L. H. Glimcher. 1992. Nature 360:266 2. Chen, C., D. A. Faherty, A. Gault, S. E. Connaughton, G. D. Powers, D. I. Godfrey, and N. Nabavi. 1996. J. Immunol. 152:2105. 3. Natesan, M., Z. Razi-Wolf, and H. Reiser. 1996. J. Immunol. 156:2783. 4. Razi-Wolf, Z., G. J. Freeman, F. Galvin, B. Benacerraf, L. Nadler, and H. Reiser. 1992. Proc. Natl. Acad. Sci. U. S. A. 89:4210. 5. Hathcock, K. S., G. Laszlo, C. Pucillo, P. Linsley, and R. J. Hodes. 1994. J. Exp. Med. 180:631. 6. Bluestone, J.A. 1995. Immunity 2:255. 7. Powers, G. D., D. A. Faherty, S. E. Connaughton, D. A. Biondi, D. I. Godfrey, A. Gault, C. Y. Chen, and N. Nabavi. 1994. Cell Immunol. 153:298.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	68163383
NCBI GeneID	554317
NCBI Accession #	NP_001020134.1
NCBI GenBank Nucleotide #	NM_001024963.1
NCBI Official Full Name	CD80/B7-1 transmembrane form
NCBI Official Symbol	LOC554317
NCBI Protein Information	CD80/B7-1 transmembrane form

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd80-b7-1-antibody-clone-1g10-immunoprecipitation-flow-cytometry-elisa/78678>