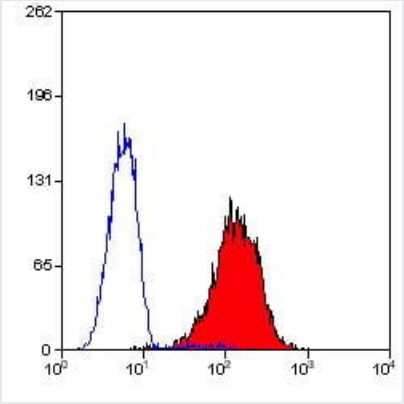
CD80 Antibody – Mouse Monoclonal

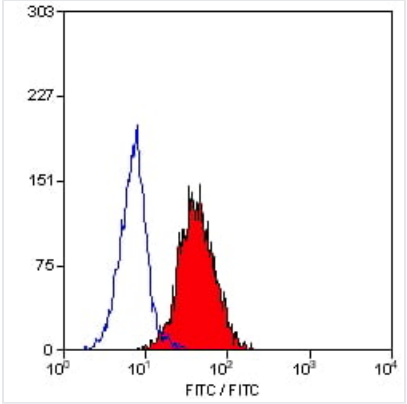
PRODUCT OVERVIEW

Product Name	CD80, Monoclonal Antibody
Full Product Name	CD80 (CD80 Antigen, CD80 Molecule, Activation B7-1 Antigen, B-lymphocyte Activation Antigen B7, B7, BB1, CD28 Antigen Ligand 1 B7-1 Antigen, CD28LG, CD28LG1, Costimulatory Factor CD80, CTLA-4 Counter-receptor B7.1, LAB7, T lymphocyte Activation Antigen CD
Product Gene Name	anti-CD80 antibody
Product Synonym Names	CD80 Antigen Precursor; Activation B7 1 Antigen; CD28 Antigen Ligand 1 B71 Antigen
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3H1689
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CD80. Binds to residues within the Ig-v-like domain of human CD80 as shown by domain switching studies.
Preparation and Storage	Store at 4 degree C. Do Not Freeze.
Molecular Weight	18,761 Da
OMIM	M27533 mRNA
3D Structure	ModBase 3D Structure for P33681
Conjugate	MaxLight750
Product Categories/Family for anti-CD80 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD80 antibody	Flow Cytometry (FC/FACS), Immunoprecipitation (IP), Western Blot (WB)
Related Product Information for anti-CD80 antibody	MBS6256830 is an antibody targeting CD80. Also known as CD80 (CD80 Antigen, CD80 Molecule, Activation B7-1 Antigen, B-lymphocyte Activation Antigen B7, B7, BB1, CD28 Antigen Ligand 1 B7-1 Antigen, CD28LG, CD28LG1, Costimulatory Factor CD80, CTLA-4 Counter-receptor B7.1, LAB7, T lymphocyte Activation Antigen CD. Reactive in Human. Host: Mouse.

Product References and Citations for anti-CD80 antibody	1. Zhan, H. et al. (2003) The immunomodulatory role of human conjunctival epithelial cells. Invest. Opthalmol. Vis. Sci. 44: 3906-3910. 2. Angel, C.E. et al. (2006) Cutting edge: CD1a+ antigen-presenting cells in human dermis respond rapidly to CCR7 ligands. J Immunol. 176 (10): 5730-4. 3. Daubenberger, C.A. et al. (2007) Flow cytometric analysis on cross-reactivity of human-specific CD monoclonal antibodies with splenocytes of Aotus nancymaae, a non-human primate model for biomedical research. Vet Immunol Immunopathol. 119 (1-2): 14-20. 4. Hovden, A.O. et al. (2011) Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses. MC Immunol. 12: 2. 5. John, J. et al. (2010) Differential effects of Paclitaxel on dendritic cell function. BMC Immunol. 11: 14. 6. Newman, K.C. et al. (2006) Cross-talk with myeloid accessory cells regulates human natural killer cell interferon-gamma responses to malaria. PLoS Pathog. 2: e118. 7. Piconi, S. et al. (2010) Immunological effects of sublingual immunotherapy: clinical efficacy is associated with modulation of programmed cell death ligand 1, IL-10, and IgG4. J Immunol. 185: 7723-30. 8. Scheinecker, C. et al. (1998) Initiation of the autologous mixed lymphocyte reaction requires the expression of costimulatory molecules B7-1 and B7-2 on human peripheral blood dendritic cells. J Immunol. 161: 3966-73. 9. Tan, P.H. et al. (2005) Modulation of human dendritic-cell function following transduction with viral vectors: implications for gene therapy. Blood. 105: 3824-32. 10. Trojan, J. et al. (2010) Antisense anti IGF-I cellular therapy of malignant tumours: immune response in cancer patients. Biomed Pharmacother. 64: 576-8. 11. Huxley, P. et al. (2004) High-affinity small molecule inhibitors of T cell costimulation: compounds for immunotherapy. Chem Biol. 11: 1651-8. 12. Tan, P.H. et al. (2004) Phenotypic and functional differences between human saphenous vein (HSVEC) and umbilical vein (HUVEC) endothelial cells. Atherosclerosis. 173: 171-83. 13. Silk, K.M. et al. (2012) Cross-presentation of tumour antigens by human induced pluripotent stem cell-derived CD141+XCR1+ dendritic cells Gene Ther. 19: 1035-40. 14. Scott-Taylor, T.H. et al. (2017) Enhanced formation of giant cells in common variable immunodeficiency: Relation to granulomatous disease. Clin Immunol. 175: 1-9.
Other Notes	Small volumes of anti-CD80 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.



Testing Data of anti-CD80 antibody
Staining of Daudi B cells with C2432-01R conjugated to ALEXA 647.



Testing Data of anti-CD80 antibody
Staining of Daudi B cells with C2432-01R-FITC.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD80. It may not necessarily be applicable to this product.

NCBI GI #	461606
NCBI GeneID	941
NCBI Accession #	P33681.1
UniProt Primary Accession #	P33681
UniProt Secondary Accession #	Q5DTA9; Q5DTB0
UniProt Related Accession #	P33681
NCBI Official Full Name	T-lymphocyte activation antigen CD80
NCBI Official Synonym Full Names	CD80 molecule
NCBI Official Symbol	CD80

NCBI Official Synonym Symbols	B7; BB1; B7-1; B7.1; LAB7; CD28LG; CD28LG1
UniProt Protein Name	T-lymphocyte activation antigen CD80
UniProt Synonym Protein Names	Activation B7-1 antigen; BB1; CTLA-4 counter-receptor B7.1; B7; CD_antigen: CD80
Protein Family	T-lymphocyte activation antigen
UniProt Gene Name	CD80
UniProt Synonym Gene Names	CD28LG; CD28LG1; LAB7; B7
NCBI Protein Information	T-lymphocyte activation antigen CD80
NCBI Summary for CD80	The protein encoded by this gene is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy. [provided by RefSeq, Aug 2011]
UniProt Comments for CD80	Involved in the costimulatory signal essential for T-lymphocyte activation. T-cell proliferation and cytokine production is induced by the binding of CD28, binding to CTLA-4 has opposite effects and inhibits T-cell activation.
Research Articles on CD80	**1.** The rs1915087 (C>T), rs6804441 (A>G) and rs41271391 (G>T) of B7 antigens were suspected as the factors associated with reduced risk of recurrent spontaneous abortion.
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