CD80 monoclonal antibody, clone MEM-233 (PE)

Catalog # MAB5054 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against recombinant CD80.
Immunogen	Recombinant Fc fusion protein corresponding to human CD80.
Host	Mouse
Theoretical MW (kDa)	60
Reactivity	Human
Specificity	This antibody reacts with CD80 (B7-1), a 60 KDa single chain type I glycoprotein of immunoglobulin supergene family, expressed on professional antigen-presenting cells, such as dendritic cells, macro phages or activated B lymphocytes.
Form	Liquid
Conjugation	PE
Isotype	IgG1
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — CD80

Entrez GeneID	941
Gene Name	CD80
Gene Alias	CD28LG, CD28LG1, LAB7
Gene Description	CD80 molecule
Omim ID	112203
Gene Ontology	Hyperlink
Gene Summary	The B-lymphocyte activation antigen B7-1 (formerly referred to as B7) provides regulatory signals for T lymphocytes as a consequence of binding to the CD28 (MIM 186760) and CTLA4 (MIM 123 890) ligands of T cells.[supplied by OMIM
Other Designations	B-lymphocyte activation antigen B7|CD80 antigen|CD80 antigen (CD28 antigen ligand 1, B7-1 an tigen)|costimulatory factor CD80|costimulatory molecule variant IgV-CD80

Publication Reference

- Suppression of colon inflammation by CD80 blockade: evaluation in two murine models of inflammatory bowel disease.

  Eri R, Kodumudi KN, Summerlin DJ, Srinivasan M.

  Inflammatory Bowel Diseases 2008 Apr; 14(4):458.

- CD86 has sustained costimulatory effects on CD8 T cells.

  Thomas IJ, Petrich de Marquesini LG, Ravanan R, Smith RM, Guerder S, Flavell RA, Wraith DC, Wen L, Wong FS.

  Journal of Immunology 2007 Nov; 179(9):5936.

- Immunophenotypic heterogeneity of bone marrow-derived mesenchymal stromal cells from patients with hematologic disorders: correlation with bone marrow microenvironment.

  Campioni D, Moretti S, Ferrari L, Punturieri M, Castoldi GL, Lanza F.

  Haematologica 2006 Mar; 91(3):364.

  Application: Flow Cyt, Human, Primary culture-expanded mesenchymal stromal cells (MSC) from patients

Pathway

- Allograft rejection

- Autoimmune thyroid disease
- Cell adhesion molecules (CAMs)
- Graft-versus-host disease
- Systemic lupus erythematosus
- Toll-like receptor signaling pathway
- Type I diabetes mellitus

Disease

- Arthritis
- Asthma
- Bronchiolitis
- Carcinoma
- Celiac Disease
- Disease Progression
- Genetic Predisposition to Disease
- Hepatitis C
- Infant
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Multiple Sclerosis
- Papillomavirus Infections
- Pulmonary Disease
- Respiratory Syncytial Virus Infections
- Sarcoidosis

- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Viremia
- Werner syndrome