

# CD80 monoclonal antibody, clone MEM-233 (PerCP)

Catalog # MAB5129

Size 100 Reactions

## Specification

|                      |                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description  | Mouse monoclonal antibody raised against partial recombinant CD80.                                                                                                                                                                        |
| Immunogen            | Recombinant Fc fusion protein corresponding to extracellular region of 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, macrophages or activated B lymphocytes. |
| Form                 | Liquid                                                                                                                                                                                                                                    |
| Conjugation          | PerCP                                                                                                                                                                                                                                     |
| Isotype              | IgG1                                                                                                                                                                                                                                      |
| Recommend Usage      | Flow Cytometry (10 ul in human blood cells 100 ul in whole blood or 10 <sup>6</sup> cells in a suspension)<br>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.<br>Avoid prolonged exposure to light.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                         |
| Note                 | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                                    |

## Applications

- Flow Cytometry

## Gene Info — CD80

|                    |                                                                                                                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">941</a>                                                                                                                                                                                                                   |
| Gene Name          | CD80                                                                                                                                                                                                                                  |
| Gene Alias         | CD28LG, CD28LG1, LAB7                                                                                                                                                                                                                 |
| Gene Description   | CD80 molecule                                                                                                                                                                                                                         |
| Omim ID            | <a href="#">112203</a>                                                                                                                                                                                                                |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                             |
| 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 123890) ligands of T cells.[supplied by OMIM] |
| Other Designations | B-lymphocyte activation antigen B7 CD80 antigen CD80 antigen (CD28 antigen ligand 1, B7-1 antigen) 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 LJ, Petrich de Marquesini LG, Ravanani 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.

## 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](#)