

**Anti-CD80 (B7-1) Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # AH13620****Specification**

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**Anti-CD80 (B7-1) Antibody - Product Information**

Application	,3,4,10,
Primary Accession	<a href="#">P33681</a>
Other Accession	<a href="#">838</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	33048

**Anti-CD80 (B7-1) Antibody - Additional Information****Gene ID** 941**Other Names**

Activation B7-1 antigen; B lymphocyte activation antigen B7; B7; B7-1; BB1; CD28 antigen ligand 1; CD28LG; CD28LG1; CD80; Costimulatory factor CD80; CTLA-4 counter-receptor B7.1; LAB7; T-lymphocyte activation antigen CD80

**Format**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

Anti-CD80 (B7-1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-CD80 (B7-1) Antibody - Protein Information****Name** CD80**Synonyms** CD28LG, CD28LG1, LAB7**Function**

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.

**Cellular Location**

Membrane; Single-pass type I membrane protein.

**Tissue Location**

Expressed on activated B-cells, macrophages and dendritic cells

**Anti-CD80 (B7-1) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-CD80 (B7-1) Antibody - Images****Anti-CD80 (B7-1) Antibody - Background**

T cell proliferation and lymphokine production are triggered by occupation of the TCR by antigen, followed by a costimulatory signal that is delivered by a ligand expressed on antigen presenting cells. The B7-related cell surface proteins CD80 (B7-1) and CD86 (B7-2) are expressed on antigen presenting cells and bind the homologous T cell receptors CTLA-4 (cytotoxic T lymphocyte-associated protein-4) and CD28 and trigger costimulatory signals for optimal T cell activation. CTLA-4 shares 31% overall amino acid identity with CD28 and it has been proposed that CD28 and CTLA-4 are functionally redundant. SLAMF7 is a novel receptor on T cells that, when engaged, potentiates T cell expansion in a CD28-independent manner. B7, also designated BB1, is another ligand or counter receptor for CD28 and CTLA-4 that is expressed on the antigen-presenting cell.