

CD80 Antibody

Rabbit mAb Catalog # AP91096

Specification

CD80 Antibody - Product Information

Application WB, IHC
Primary Accession P33681
Clonality Monoclonal

Other Names

B7.1; BB1; CD28 antigen ligand 1; CD28LG1; CD80; CD80 antigen; T-lymphocyte activation

antigen CD80;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 33048 Da

CD80 Antibody - Additional Information

Dilution WB~~1:1000

IHC~~1:100~500

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

CD80

Description Expressed on activated B-cells,

macrophages and dendritic cells. Involved in the costimulatory signal essential for

T-lymphocyte activation. T-cell

proliferation and cytokine production is induced by the binding of CD28 or CTLA-4

to this receptor.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

CD80 Antibody - Protein Information

Name CD80

Synonyms CD28LG1, CD28LG1, LAB7

Function

Costimulatory molecule that belongs to the immunoglobulin superfamily that plays an important role in T-lymphocyte activation (PubMed:38467718). Acts as the primary auxiliary signal augmenting the MHC/TCR signal in naive T-cells together with the CD28 receptor which is constitutively expressed on the cell surface of T-cells (PubMed:<a href="http://www.uniprot.org/citations/12196291"



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target=" blank">12196291). In turn, activates different signaling pathways such as NF-kappa-B or MAPK leading to the production of different cytokines (PubMed: 10438913). In addition, CD28/CD80 costimulatory signal stimulates glucose metabolism and ATP synthesis of T-cells by activating the PI3K/Akt signaling pathway (PubMed: 12121659). Also acts as a regulator of PDL1/PDCD1 interactions to limit excess engagement of PDL1 and its inhibitory role in immune responses (PubMed:36727298). Expressed on B-cells, plays a critical role in regulating interactions between B-cells and T-cells in both early and late germinal center responses, which are crucial for the generation of effective humoral immune responses (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

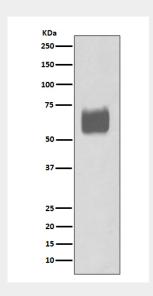
Expressed on activated B-cells, macrophages and dendritic cells

CD80 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD80 Antibody - Images



Western blot analysis of CD80 expression in Raji cell lysate.