

**CD80 antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14903****Specification**

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**CD80 antibody - C-terminal region - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P33681</a>
Other Accession	<a href="#">NM_005191</a> , <a href="#">NP_005182</a>
Reactivity	<b>Human, Pig</b>
Predicted	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>29kDa KDa</b>

**CD80 antibody - C-terminal region - Additional Information****Gene ID** 941**Alias Symbol** **CD28LG, CD28LG1, LAB7, B7, BB1, B7-1, B7.1****Other Names**

T-lymphocyte activation antigen CD80, Activation B7-1 antigen, BB1, CTLA-4 counter-receptor B7.1, B7, CD80, CD80, CD28LG, CD28LG1, LAB7

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-CD80 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

CD80 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**CD80 antibody - C-terminal region - Protein Information****Name** CD80**Synonyms** CD28LG, CD28LG1, LAB7**Function**

Costimulatory molecule that belongs to the immunoglobulin superfamily that plays an important role in T-lymphocyte activation (PubMed:&lt;a href="http://www.uniprot.org/citations/38467718" target="\_blank"&gt;38467718&lt;/a&gt;). 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:&lt;a href="http://www.uniprot.org/citations/12196291" target="\_blank"&gt;12196291&lt;/a&gt;)

target="\_blank">12196291</a>). In turn, activates different signaling pathways such as NF-kappa-B or MAPK leading to the production of different cytokines (PubMed:<a href="http://www.uniprot.org/citations/10438913" target="\_blank">10438913</a>). In addition, CD28/CD80 costimulatory signal stimulates glucose metabolism and ATP synthesis of T-cells by activating the PI3K/Akt signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/12121659" target="\_blank">12121659</a>). Acts also as a regulator of PDL1/PDCD1 interactions to limit excess engagement of PDL1 and its inhibitory role in immune responses (PubMed:<a href="http://www.uniprot.org/citations/36727298" target="\_blank">36727298</a>). 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

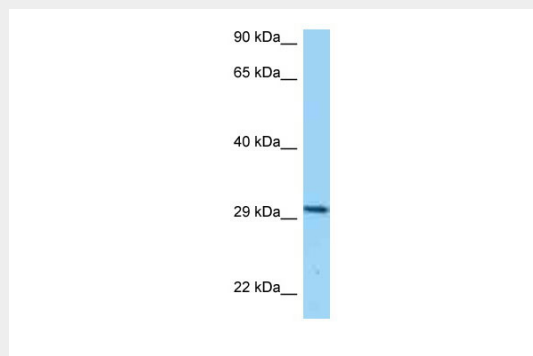
Expressed on activated B-cells, macrophages and dendritic cells

### CD80 antibody - C-terminal region - 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](#)

### CD80 antibody - C-terminal region - Images



WB Suggested Anti-CD80 Antibody Titration: 1.0 µg/ml

Positive Control: Hela Whole Cell

### CD80 antibody - C-terminal region - References

- Freeman G.J., et al. J. Immunol. 143:2714-2722(1989).  
Selvakumar A., et al. Immunogenetics 36:175-181(1992).  
Kakoulidou M., et al. Scand. J. Immunol. 66:529-537(2007).  
Muzny D.M., et al. Nature 440:1194-1198(2006).  
Freeman G.J., et al. J. Exp. Med. 174:625-631(1991).

