

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

CD80 antibody - C-terminal region - Product Information

Application	WB
Primary Accession	P33681
Other Accession	NM_005191 , NP_005182
Reactivity	Human, Pig
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29kDa KDa

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: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:

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

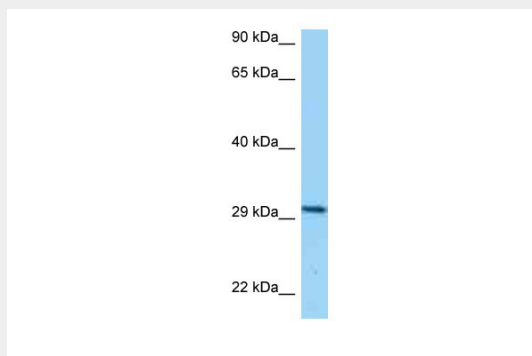
Expressed on activated B-cells, macrophages and dendritic cells

CD80 antibody - 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).

