

# CD80 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14903

## Product Information

Application	WB
Primary Accession	<a href="#">P33681</a>
Other Accession	<a href="#">NM_005191</a> , <a href="#">NP_005182</a>
Reactivity	Human, Pig
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33048

## 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.

## 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: <a href="#">38467718</a> ). 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="#">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="#">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:[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

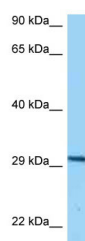
## References

---

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).

## Images

---



WB Suggested Anti-CD80 Antibody Titration: 1.0 µg/ml  
Positive Control: Hela Whole Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.