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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:<a href="http://www.uniprot.org/citations/12196291"

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). Acts also 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

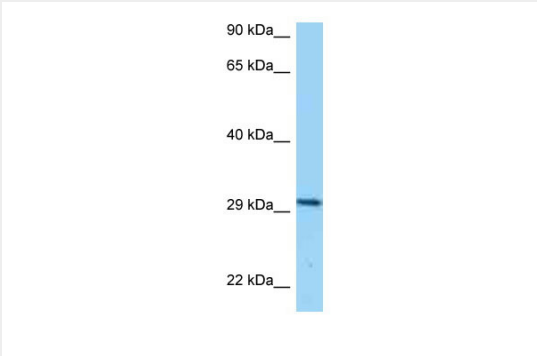
Tissue Location
Expressed on activated B-cells, macrophages and dendritic cells

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 Cytomety
- 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

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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).

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