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CD80 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14903

Product Information

Application	WB
Primary Accession	P33681
Other Accession	NM_005191, NP_005182
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

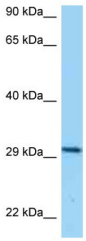
Name	CD80
Synonyms	CD28LG, CD28LG1, LAB7
Function	Costimulatory molecule that belongs to the immunoglobulin superfamily that plays an important role in T-lymphocyte activation (PubMed:38467718). Acts as the primary auxiliary signal augmenting the MHC/TCR signal in naive T-cells together with the CD28 receptor which is constitutively expressed on the cell surface of T-cells (PubMed: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

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