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Anti-CD80-AcalephFluor488-labled

Catalog # AP101164

Product Information

Application	FC, IF/IC
Primary Accession	Q00609
Reactivity	Mouse
Clonality	Monoclonal
Calculated MW	34590

Additional Information

Gene ID	12519
Other Names	CD28LG; CD28LG1; LAB7; T-lymphocyte activation antigen CD80; Activation B7-1 antigen; BB1; CTLA-4 counter-receptor B7.1; B7; CD80
Target/Specificity	Recognizes mouse CD80
Dilution	FC~~1:10~50 IF/IC~~N/A
Format	Armenian Hamster IgG. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	Cd80
Synonyms	B7
Function	Costimulatory molecule that belongs to the immunoglobulin superfamily that plays an important role in T-lymphocyte activation (PubMed:16339518, PubMed:1714935). Acts as the primary auxiliary signal augmenting the MHC/TCR signal in naive T-cells by acting as a ligand for the CD28 receptor which is constitutively expressed on the cell surface of T-cells (PubMed:16339518). In turn, activates different signaling pathways such as NF-kappa-B or MAPK leading to the production of different cytokines (By similarity). Also acts as an inhibitor of T- cell activation by acting as a ligand for CTLA4, a decoy receptor, thereby blocking CD28-mediated T-cell priming (By similarity). In addition, CD28/CD80 costimulatory signal stimulates glucose metabolism and ATP synthesis of T-cells by activating the PI3K/Akt signaling pathway (By similarity). Also acts as a regulator of PDL1/PDCD1 interactions to limit excess engagement of PDL1 and its inhibitory role in immune responses (By similarity). 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 (PubMed:22450810).
Cellular Location	Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P33681}
Tissue Location	Expressed on activated B-cells, gamma interferon stimulated monocytes and non-circulating B-cell malignancies

Background

AcalephFluor488-labled armenian hamster monoclonal antibody to CD80

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