CD28 Antibody

Catalog # ASC12118

Product Information

Application	WB, IHC, IF, E
Primary Accession	P10747
Other Accession	P10747
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Clone Names	CD28
Calculated MW	25066

Additional Information

Gene ID	940
Alias Symbol	CD28
Other Names	CD28 Antibody: CD28 Molecule, CD28 Antigen, Tp44, T-Cell-Specific Surface Glycoprotein CD28, T-Cell-Specific Surface Glycoprotein, CD28 Antigen (Tp44)
Reconstitution & Storage	CD28 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	CD28 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD28
Function	Receptor that plays a role in T-cell activation, proliferation, survival and the maintenance of immune homeostasis (PubMed:1650475, PubMed:7568038). Functions not only as an amplifier of TCR signals but delivers unique signals that control intracellular biochemical events that alter the gene expression program of T-cells (PubMed:24665965). Stimulation upon engagement of its cognate ligands CD80 or CD86 increases proliferation and expression of various cytokines in particular IL2 production in both CD4(+) and CD8(+) T-cell subsets (PubMed:1650475, PubMed:35397202). Mechanistically, ligation induces recruitment of protein kinase C-theta/PRKCQ and GRB2 leading to NF-kappa-B activation via both PI3K/Akt-dependent and -independent pathways (PubMed:21964608, PubMed:24665965, PubMed:7568038). In conjunction with TCR/CD3 ligation and CD40L costimulation, enhances the production of IL4 and IL10 in T-cells (PubMed:8617933).
Cellular Location	Cell membrane; Single-pass type I membrane protein

Tissue Location   Expressed in T-cells and plasma cells, but not in less mature B-cells

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