

CD28 Antibody
Catalog # ASC12118**Specification****CD28 Antibody - Product Information**

Application	WB, IHC, IF, E
Primary Accession	P10747
Other Accession	P10747
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 28 kDa
	Observed: 26 kDa KDa

CD28 Antibody - 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.

CD28 Antibody - Protein Information

Name CD28

Function

Receptor that plays a role in T-cell activation, proliferation, survival and the maintenance of immune homeostasis (PubMed:[1650475](http://www.uniprot.org/citations/1650475), PubMed:[7568038](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/1650475), PubMed:[35397202](http://www.uniprot.org/citations/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

CD28 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD28 Antibody - Images