

CD28 (pY218) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51639**Specification**

CD28 (pY218) Antibody - Product Information

Application	WB, E
Primary Accession	P10747
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25, 44 KDa

CD28 (pY218) Antibody - Additional Information**Gene ID** 940**Other Names**

T-cell-specific surface glycoprotein CD28, TP44, CD28, CD28

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

CD28 (pY218) 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](http://www.uniprot.org/citations/21964608), PubMed: [24665965](http://www.uniprot.org/citations/24665965), PubMed: [7568038](http://www.uniprot.org/citations/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 (pY218) 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 (pY218) Antibody - Images**CD28 (pY218) Antibody - Background**

Involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival.

CD28 (pY218) Antibody - References

Aruffo A.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:8573-8577(1987).
Lee K.P.,et al.J. Immunol. 145:344-352(1990).
Deshpande M.,et al.Hum. Immunol. 63:20-23(2002).
Hanawa H.,et al.Blood 99:2138-2145(2002).
Gan S.U.,et al.Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.