

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

**Specification**

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**CD28 (pY218) Antibody - Product Information**

Application	<b>WB, E</b>
Primary Accession	<a href="#">P10747</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>25, 44 KDa</b>

**CD28 (pY218) Antibody - Additional Information**

**Gene ID** 940

**Other Names**

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

**Dilution**

WB~~1:1000

E~~N/A

**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:

href="http://www.uniprot.org/citations/21964608" target="\_blank">21964608</a>, PubMed:<a href="http://www.uniprot.org/citations/24665965" target="\_blank">24665965</a>, PubMed:<a href="http://www.uniprot.org/citations/7568038" target="\_blank">7568038</a>). In conjunction with TCR/CD3 ligation and CD40L costimulation, enhances the production of IL4 and IL10 in T-cells (PubMed:<a href="http://www.uniprot.org/citations/8617933" target="\_blank">8617933</a>).

**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.