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Anti-CD28 (Phospho-Y218) Antibody

Catalog # AP51639

Product Information

Application	WB
Primary Accession	P10747
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25066

Additional Information

Gene ID	940
Other Names	T-cell-specific surface glycoprotein CD28; TP44; CD28
Target/Specificity	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding Y218 of human CD28 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

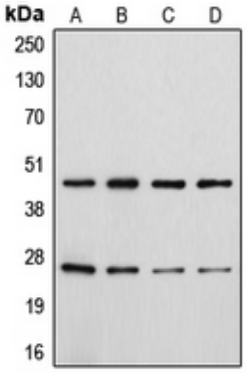
Name	CD28
Function	Receptor that plays a role in T-cell activation, proliferation, survival and the maintenance of immune homeostasis (PubMed:1650475, PubMed:7568038). Functions not only as an amplifier of TCR signals but delivers unique signals that control intracellular biochemical events that alter 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:12196291, 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

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.

Images



Western blot analysis of CD28 (Phospho-Y218) expression in HeLa colchicine-treated (A), Jurkat (B), Raw264.7 colchicine-treated (C), H9C2 colchicine-treated (D) whole cell lysates. (Predicted band size: 25 kD; Observed band size: 44 kD)

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