

# CD28 Polyclonal Antibody

Catalog # AP73427

## Product Information

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Application	WB
Primary Accession	<a href="#">P10747</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25066

## Additional Information

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Gene ID	940
Other Names	CD28; T-cell-specific surface glycoprotein CD28; TP44; CD28
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	CD28
Function	Receptor that plays a role in T-cell activation, proliferation, survival and the maintenance of immune homeostasis (PubMed: <a href="#">1650475</a> , PubMed: <a href="#">7568038</a> ). 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: <a href="#">24665965</a> ). 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: <a href="#">1650475</a> , PubMed: <a href="#">35397202</a> ). 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: <a href="#">21964608</a> , PubMed: <a href="#">24665965</a> , PubMed: <a href="#">7568038</a> ). In conjunction with TCR/CD3 ligation and CD40L costimulation, enhances the production of IL4 and IL10 in T-cells (PubMed: <a href="#">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

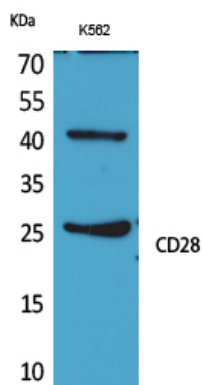
## Background

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Involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival. Enhances the production of IL4 and IL10 in T-cells in conjunction with TCR/CD3 ligation and CD40L costimulation (PubMed:[8617933](#)). Isoform 3 enhances CD40L-mediated activation of NF-kappa-B and kinases MAPK8 and PAK2 in T-cells (PubMed:[15067037](#)).

## Images

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Western Blot analysis of K562 cells using CD28 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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