

**CD28 Polyclonal Antibody**  
Catalog # AP73427**Specification**

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**CD28 Polyclonal Antibody - Product Information**

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

**CD28 Polyclonal Antibody - Additional Information****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

**CD28 Polyclonal 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:<a href="http://www.uniprot.org/citations/8617933" target="\_blank">8617933</a>).

#### Cellular Location

Cell membrane; Single-pass type I membrane protein

#### Tissue Location

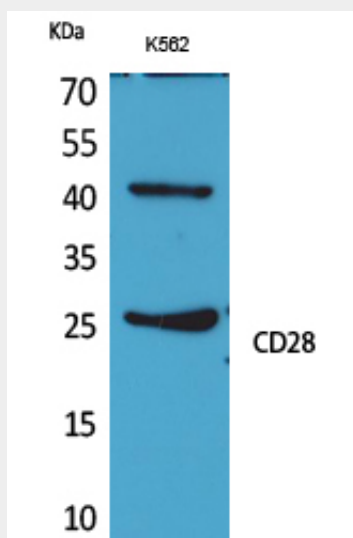
Expressed in T-cells and plasma cells, but not in less mature B-cells

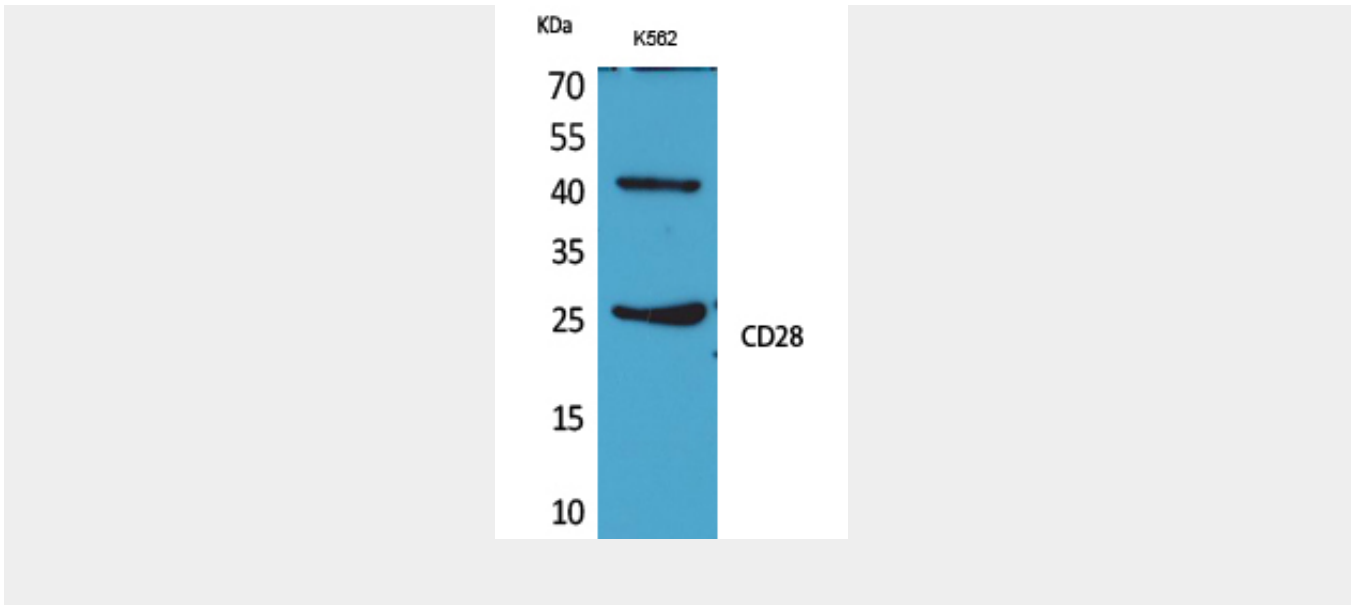
### CD28 Polyclonal Antibody - Protocols

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 Polyclonal Antibody - Images





### CD28 Polyclonal Antibody - Background

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).