

# CD28 Polyclonal Antibody

Rabbit Anti Human Polyclonal Antibody

Catalog # ABV11722

## Product Information

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

## Additional Information

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<b>Gene ID</b>	940
<b>Positive Control</b>	WB, ELISA
<b>Application &amp; Usage</b>	Western Blot: 1:500 – 1:2000, ELISA: 1:20000.
<b>Other Names</b>	CD28; T-cell-specific surface glycoprotein CD28; TP44; CD28
<b>Target/Specificity</b>	CD28
<b>Antibody Form</b>	Liquid
<b>Appearance</b>	Colorless liquid
<b>Formulation</b>	PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Handling</b>	The antibody solution should be gently mixed before use.
<b>Reconstitution &amp; Storage</b>	-20 °C
<b>Background Descriptions</b>	
<b>Precautions</b>	CD28 Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CD28
<b>Function</b>	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:[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

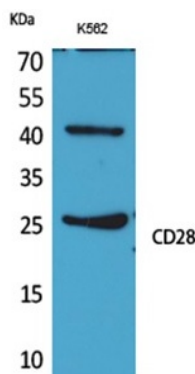
## Background

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Involved in T-cell activation, 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. Isoform 3 enhances CD40L-mediated activation of NF-kappa-B and kinases MAPK8 and PAK2 in T-cells.

## Images

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Western blot analysis of K562 cells using CD28 Polyclonal antibody.

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