

CD28 Polyclonal Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ABV11722**Specification**

CD28 Polyclonal Antibody - Product Information

Application	WB, E
Primary Accession	P10747
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	25066

CD28 Polyclonal Antibody - Additional Information**Gene ID 940**

Positive Control	WB, ELISA
Application & Usage	Western Blot: 1:500 - 1:2000, ELISA: 1:20000.

Other Names

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

Target/Specificity

CD28

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

CD28 Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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, 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:1650475, PubMed:35397202). Mechanistically, ligation induces recruitment of protein kinase C-theta/PRKQC 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

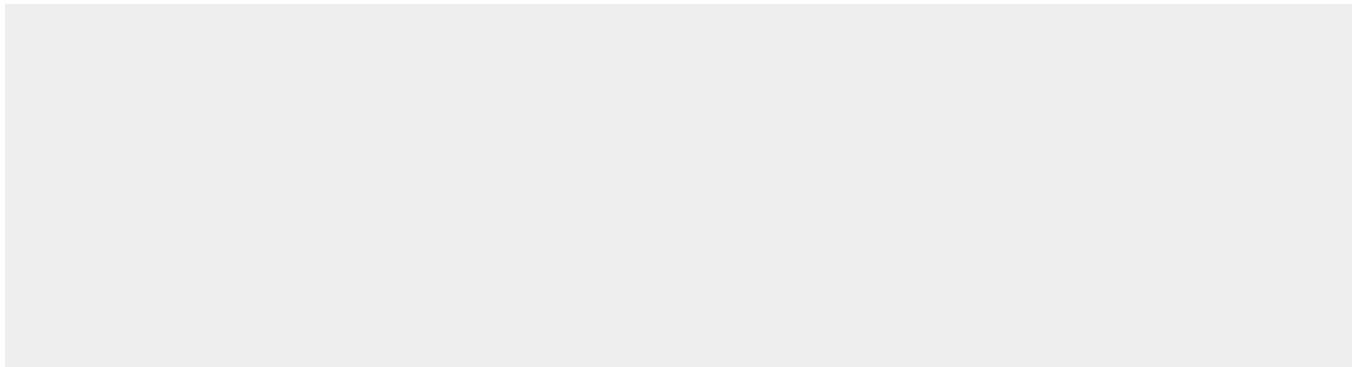
Expressed in T-cells and plasma cells, but not in less mature B-cells

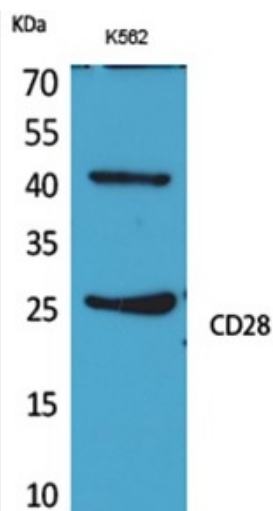
CD28 Polyclonal Antibody - Protocols

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





Western blot analysis of K562 cells using CD28 Polyclonal antibody.

CD28 Polyclonal Antibody - Background

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.