

### CD28 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6982B

## **Specification**

## CD28 Antibody (C-term) - Product Information

**Application** IF, WB,E **Primary Accession** P10747 Other Accession P42069 Reactivity Human Predicted Rabbit **Rabbit** Host Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 25066 Antigen Region 182-208

## CD28 Antibody (C-term) - Additional Information

#### Gene ID 940

### **Other Names**

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

## Target/Specificity

This CD28 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 182-208 amino acids from the C-terminal region of human CD28.

## **Dilution**

IF~~1:10~50 WB~~1:1000

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

CD28 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## CD28 Antibody (C-term) - 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/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**

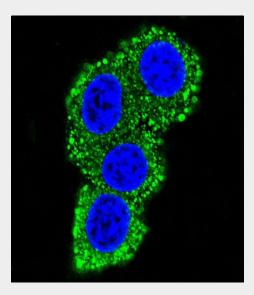
Expressed in T-cells and plasma cells, but not in less mature B-cells

## CD28 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

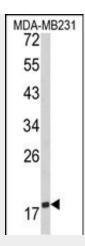
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CD28 Antibody (C-term) - Images



Confocal immunofluorescent analysis of CD28 Antibody (C-term) (Cat. #AP6982b) with Hela cell followed by Alexa Fluor® 489-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).





Western blot analysis of CD28 Antibody (C-term) (Cat. #AP6982b) in MDA-MB231 cell line lysates (35ug/lane). CD28 (arrow) was detected using the purified Pab.

# CD28 Antibody (C-term) - Background

CD28 costimulation is essential for CD4-positive T-cell proliferation, survival, interleukin-2 production, and T-helper type-2 (Th2) development.

# CD28 Antibody (C-term) - References

Zocchi, M.R., et.al., Eur. J. Cancer 28A (4-5), 749-754 (1992)