

CD28 Antibody [Clone CB28]
Purified Mouse Monoclonal Antibody
Catalog # AH10129

Specification

CD28 Antibody [Clone CB28] - Product Information

Application	FC
Primary Accession	P10747
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1, kappa
Calculated MW	44kDa (monomer); 88kDa (dimer) KDa

CD28 Antibody [Clone CB28] - Additional Information

Gene ID 940

Other Names

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

Target/Specificity

Recombinant human CD28 protein

Format

0.5 ml at 100ug/ml; Conjugated to AF488

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

CD28 Antibody [Clone CB28] is for research use only and not for use in diagnostic or therapeutic procedures.

CD28 Antibody [Clone CB28] - Protein Information

Name CD28

Function

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](http://www.uniprot.org/citations/8617933)). Isoform 3 enhances CD40L-mediated activation of NF-kappa-B and kinases MAPK8 and PAK2 in T-cells (PubMed: [15067037](http://www.uniprot.org/citations/15067037)).

Cellular Location

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 [Clone CB28] - 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 Antibody [Clone CB28] - Images**CD28 Antibody [Clone CB28] - Background**

Recognizes a glycoprotein of 44-88kDa, which is identified as CD28. It is the critical T-cell co-stimulatory receptor which provides to the cell the important second activation signal by binding CD80 and CD86 that are expressed by antigen presenting cells. Besides its co-stimulation role, CD28 functions in preventing T-cells from anergic hyporesponsive state or from undergoing premature apoptotic cell death. CD28 is also expressed on human fetal NK cells and some NK cell lines, whereas on murine NK cells the CD28 expression is much broader.

CD28 Antibody [Clone CB28] - References

1. Marti F, Krause A, Post NH, Lyddane C, Dupont B, Sadelain M, King PD: Negative-feedback regulation of CD28 costimulation by a novel mitogen-activated protein kinase phosphatase, MKP6. *J Immunol.* 2001;166(1):197-206.
2. Scharschmidt E, Wegener E, Heissmeyer V, Rao A, Krappmann D: Degradation of Bcl10 induced by T-cell activation negatively regulates NF-kappa B signaling. *Mol Cell Biol.* 2004;24(9):3860-73.
3. Jeong SH, Qiao M, Nascimbeni M, Hu Z, Rehmann B, Murthy K, Liang TJ. Immunization with hepatitis C virus-like particles induces humoral and cellular immune responses in nonhuman primates. *J Virol.* 2004;78(13):6995-7003.