



# Mouse Anti-Human CD28 Monoclonal Antibody, clone ANC28.1/5D10 [Functional Grade] (CABG-014-1)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Recombinant Human CD28 and HPB-MLT human tumor cells.
<b>Isotype</b>	IgG1, κ
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	ANC28.1/5D10
<b>Purification</b>	Protein A purified
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	FC, ELISA Functional Application: Stimulates expression of IL-2 from CD28+ cells.
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µg
<b>Buffer</b>	50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl
<b>Preservative</b>	None
<b>Storage</b>	Store at 2 - 5°C. Stable for at least 1 year after receipt when stored at 4°C. Open under aseptic conditions. Freeze/Thawing is not recommended.

# BACKGROUND

**Introduction** Human CD28 is an important costimulatory molecule found on all CD4+ T cells and on about half of the CD8+ T cells. T cell activities attributed to CD28 include prevention of anergy, induction of cytokine gene transcription, stabilization of cytokine mRNA and activation of CD8+ cytotoxic T lymphocytes. The ligands for CD28 identified as CD80 (B7-1) and CD86 (B7-2) are immunoglobulin superfamily monomeric transmembrane glycoproteins of 60kDa and 80kDa respectively. Anti-CD28 antibodies have been shown to have a strong adjuvant effect when conjugated to an immunogen. Monovalency of the CD28 receptor for its natural ligands is essential to provide costimulation without inducing responses in the absense of TCR engagement.

**Keywords** CD28;CD28 molecule;Tp44;T-cell-specific surface glycoprotein CD28;CD28 antigen

# GENE INFORMATION

Gene Name	CD28
Synonyms	Tp44, T44
Entrez Gene ID	<a href="#">940</a>
UniProt ID	<a href="#">P10747</a>