

## Product datasheet for **AM12006AF-N**

### CD28 Mouse Monoclonal Antibody [Clone ID: CD28.2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	CD28.2
Applications:	FC, FN, IF, IHC, IP, WB
Recommended Dilution:	<b>Western blot.</b> <b>Immunoprecipitation.</b> <b>Flow Cytometry.</b> <b>Immunocytochemistry.</b> <b>Functional Application:</b> T cell costimulation. <b>Immunohistochemistry on Frozen Sections.</b>
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	DC28.1.3.3 murine T cell hybridoma transfected with human CD28 cDNA
Specificity:	The antibody reacts with CD28, a disulfide-linked homodimeric type I glycoprotein (monomer of Mw 44 kDa) which is a critical costimulatory receptor of T cells.
Formulation:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized State: Azide Free State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: None
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
Stability:	Shelf life: one year from despatch.
Gene Name:	CD28 molecule



[View online »](#)

Database Link: [Entrez Gene 940 Human P10747](#)

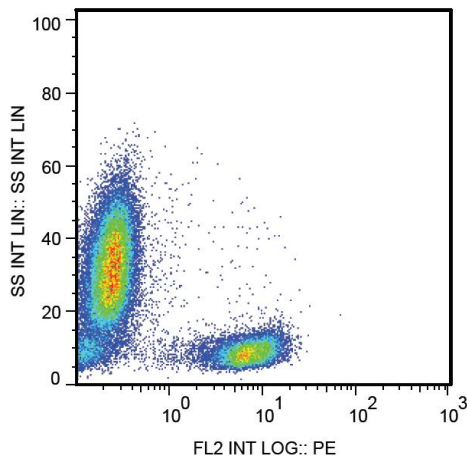
**Background:** CD28 is the critical T cell costimulatory receptor which provides to the cell the important second activation signal by binding CD80 and CD86 that are expressed by antigen presenting cells. Besides its costimulation role CD28 functions in preventing T cells from anergic hyporesponsive 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.

**Synonyms:** TP44

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Allograft rejection, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, T cell receptor signaling pathway, Type I diabetes mellitus, Viral myocarditis

### Product images:



Surface staining of human peripheral blood leukocytes with anti-human CD28 (CD28.2) purified.