

Product datasheet for **TA386537**

CD28 Rabbit Monoclonal Antibody [Clone ID: 1500000000]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1500000000
Applications:	ELISA, FC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	The original mouse antibody was generated by immunizing mice with human T lymphocytes.



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Specificity:	<p>This antibody binds human CD28, which is found on a sub-population of T cells and activated B cells. The antibody does not react with B cells, granulocytes or monocytes. CD28 is involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival.</p> <p>This antibody works independently of TcR/CD3 and activation of protein kinase C (PKC) for activation of T cells and enhances cytokine secretion (PMID: 1647959). This antibody is capable of stimulating T cells in combination with either murine OKT3 antibody or CDR-mutated OKT3 Fab variants. It was found that cross-linking of specific tumor antigens with the T-cell-associated CD3 and CD28 antigens can increase IL-2 secretion, proliferation and antigen-specific cytotoxicity in resting T cells. This cross-linking can be achieved effectively by bispecific monoclonal antibodies (BiMAb) with specificity for both the tumor antigen and CD3 or CD28 antigen. A combination of bispecific antibodies BiMAb OKT3/HRS-3 with reactivity against both CD3 and Hodgkin's-lymphoma-associated CD30 antigen and BiMAb 15E8/HRS-3 with reactivity to both CD28 and CD30 antigen was able to activate resting T cells, represented by Jurkat cells (CD3+/CD28+) to produce IL-2 (PMID: 7686889). This antibody was also used in another study wherein the combined use of two CD3 x CD19 plus CD28 x CD22 bispecific antibodies induced optimal interleukin 2 secretion by Jurkat T-cell acute lymphocytic leukemia cells in the presence of target B-cells (PMID: 7689932). This antibody also provides a co-stimulatory signal to T cells. The scFv fragment of this antibody induced proliferation of peripheral blood mononuclear cells in the presence of anti-CD3 or anti-CD2 mAb and enhanced anti-tumor activity of anti-MUC1×anti-CD3 bispecific antibody when tested with lymphokine-activated killer cells with T cell phenotype (PMID: 10913626). The humanized version of this antibody is available on request.</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	CD28 molecule
Database Link:	Entrez Gene 940 Human P10747
Synonyms:	MGC138290; Tp44
Note:	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.