

## Product Datasheet

### CD28 antibody (orb1152457)

**Description**

Mouse monoclonal antibody to CD28

**Species/Host**

Mouse

**Reactivity**

Human

**Conjugation**

Unconjugated

**Tested Applications**

ELISA, FC

**Immunogen**

The original mouse antibody was generated by immunizing mice with human T lymphocytes.

**Target**

CD28

**Preservatives**

PBS with 0.02% Proclin 300.

**Concentration**

1 mg/ml

**Storage**

Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Note**

For research use only

**Application notes**

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

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