

Product datasheet for SM2266R

OriGene Technologies, Inc.

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Cd28 Mouse Monoclonal Antibody [Clone ID: E18]

Product data:

Product Type: Primary Antibodies

Clone Name: E18
Applications: FC

Recommended Dilution: Flow Cytometry: Use 10 μl of Neat-1/10 diluted antibody to label 10e6 cells in 100 μl.

Reactivity: Mouse
Host: Mouse
Isotype: IgG2b

Clonality: Monoclonal

Immunogen: Alternate immunisation with A20 cells expressing mCD28 and recombinant mCD28lg.

Spleen cells from immunised CD28-/-knockout mice were fused with cells of the X63Ag8.653

myeloma cell line.

Specificity: This antibody recognises murine CD28, a co-stimulatory cell surface molecule expressed by T

cell subsets.

Clone E18 has been shown to be able to stimulate murine T lymphocytes in combination with

anti-mouse CD3.

Formulation: Phosphate buffered saline pH 7.4 without preservatives.

Label: PE

State: Lyophilized purified IgG fraction.

Label: R. Phycoerythrin (RPE)

Reconstitution Method: Restore with 1 ml distilled water.

Concentration: lot specific

Purification: Affinity Chromatography on Protein G.

Conjugation: PE

Storage: Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light. Should this product

contain a precipitate we recommend microcentrifugation before use.

Stability: Shelf life: one year from despatch.





Cd28 Mouse Monoclonal Antibody [Clone ID: E18] - SM2266R

Gene Name: CD28 antigen

Database Link: Entrez Gene 12487 Mouse

P31041

Background: Human CD28 antigen is a 44 kDa disulfide linked homodimeric T cell specific surface

glycoprotein. It is a cell adhesion molecule of the immunoglobulin superfamily which is constitutively expressed on most peripheral blood T lymphocytes (approximately 95% of CD4+ cells and 50% of CD8+ cells). Mature thymocytes exhibit higher levels of CD28 than the immature cells. Activation of T cells results in enhanced CD28 expression. T cell activation requires two combined signals provided by antigen presenting cells. The first is mediated via the T cell receptor following its interaction with antigenic peptide MHC complexes, and the second is delivered by accessory or costimulating molecules through their counter receptors on T lymphocytes. CD28 bears structural homology to CTLA 4 which is expressed at very low levels on the surface of CD4+ and CD8+ peripheral blood cells only following activation. CD28 is the natural receptor for the B7/BB 1 ligand (CD80) a 55-60 kDa glycoprotein which is expressed on activated B lymphocytes, on dendritic cells and on interferon gamma treated monocytes. The binding of B7 1/BB 1 molecules to CD28 is involved in T lymphocyte

activation and in the initiation and maintenance of chronic inflammation.

Synonyms: TP44