

Product datasheet for **SM2266LE**

Cd28 Mouse Monoclonal Antibody [Clone ID: E18]

Product data:

Product Type:	Primary Antibodies
Clone Name:	E18
Applications:	FC, FN
Recommended Dilution:	Functional Assays. Flow Cytometry: Use 10 µl of 1/50-1/100 diluted to label 10 ⁶ 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 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:	PBS, pH 7.4 State: Low Endotoxin State: Liquid purified IgG fraction Stabilizer: None Preservative: None
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD28 antigen



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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

Note: **Endotoxin Level:** less than 0.01 EU/μg