

Product datasheet for **SM1742P**

B7-1 (CD80) Mouse Monoclonal Antibody [Clone ID: MEM-233]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-233
Applications:	FC, IP, WB
Recommended Dilution:	Flow Cytometry. Immunoprecipitation. Western blot (Non-Reducing Conditions).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognises the CD80 cell surface antigen, also known as B7-1. Functional studies using Mouse anti Human CD80, clone MEM-233 in combination with Mouse anti Human CD86, clone Bu63 suggest that clone MEM-233 is able to block binding of human CD80 with it's cognate ligands CD28 and CTLA-4 (<i>Morbach et al. 2011</i>).
Formulation:	PBS containing 0.09% Sodium Azide State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD80 molecule
Database Link:	Entrez Gene 941 Human P33681



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Background:

CD80 is a member of the Ig superfamily and serves as the ligand for two T cell molecules, CD28 and CTLA4. Interactions between CD28 and CD80 on activated B cells result in enhanced T cell activation. CD80 is rapidly induced on the surface of in vitro activated B cells, Epstein Barr Virus (EBV) transformed B cell lines, Burkitts lymphoma cell lines, freshly isolated follicular B lymphoma cells, T cells, and monocytes. It is also expressed at high levels in dendritic cells. It reacts weakly with a small proportion of non activated normal B cells and with HTLV1 infected T cells. CD80 does not react with peripheral monocytes, resting and activated normal T cells, T cell lines and T cell clones, nor with myelomonocytic cell lines. CD80 is expressed by activated B cells, and is important in B cell - T cell interactions, being a ligand of CD28 and CD152 (CTLA-4).

Synonyms:

CD28LG, CD28LG1, LAB7, BB1, B7.1, B7-1