

CD28

Mouse Anti-Human CD28 (Clone CLB-CD28/1, 15E8) mAb

Catalog No.	M1650	Quantity:	100 µL
Alternate Names:	Tp44, CD28		
Description:	<p>The monoclonal antibody is directed against the human CD28 antigen, which is essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. CD28, when stimulated by its ligands B7-1 (CD80) or B7-2 (CD86) provides the co-stimulatory "second signal" required for T cell activation.</p> <p>The monoclonal antibody is directed against the CD28 antigen, which is expressed on a subpopulation of human T cells and activated B cells. It has been shown that CD28 positive cells are cytotoxic T lymphocyte precursors. The monoclonal antibody does not react with B cells, granulocytes and monocytes.</p>		
UniProt ID:	P10747		
Gene ID:	940		
Concentration:	~2.0 mg/mL		
Specificity:	Human CD28. The monoclonal antibody does not react with B-cells, granulocytes and monocytes.		
Host:	Mouse		
Isotype:	IgG1		
Immunogen:	Human T lymphocytes		
Clone:	CLB-CD28/1, 15E8		
Molecular Weight:	44 kD		
Formulation:	Liquid in 20 mM TRIS, 150 mM NaCl, 0.001% Merthiolate.		
Source:	Ascites fluid		
Biological Activity:	This antibody may be used to provide the co-stimulatory "second signal" to help induce the proliferation of resting T lymphocytes.		
Applications:	Functional Studies		
Application Notes:	<p>To induce the proliferation of resting T lymphocytes for further study. In general, two signals are required to activate T lymphocytes into proliferation. In vitro, both signals can be given by the proper combination of monoclonal antibodies, in this respect, monoclonal antibodies against CD2, CD3 and CD28 have provided much information on the stimulatory mechanism. It was found that anti-CD2 antibodies are also able to stimulate T cells, although only in the presence of a second signal, which can be given either by more anti-CD2 antibodies directed against other epitopes on the CD2 molecule, and / or e.g. by an anti-CD28 antibody. The binding of anti-CD28 McAbs to T cells was found to enhance stimulation of the cells by anti-CD2 and anti-CD3 McAbs. Therefore, CD28 is regarded as a 'co-stimulatory' molecule.</p>		
Storage & Stability:	Store in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

