

CD28 Monoclonal Antibody (JJ319)

Catalog Number      MA5-17468

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Rat
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution *
Type	Antibody	Immunoprecipitation (IP)	Assay-dependent
Clone	JJ319	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Rat CD28 transfected A20J.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Background/Target Information

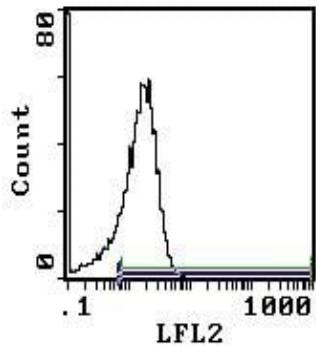
CD28 antigen is a 44 kDa disulfide linked homodimeric T cell specific surface glycoprotein. CD28 is a cell adhesion molecule of the immunoglobulin superfamily which is constitutively expressed on most peripheral blood T lymphocytes. Moreover, CD28 is the critical T cell costimulatory receptor that provides the cell the important second activation signal by binding CD80 and CD86 which are expressed by antigen presenting cells. In addition to its co-stimulation role, CD28 functions by preventing T cells from entering an anergic-hyporesponsive state or from undergoing premature apoptotic cell death. In murine peripheral lymphoid organs and in the blood, all CD4+ and CD8+ T cells express CD28. In the thymus, CD28 expression is highest on immature CD3-, CD8+ and CD4+8+ cells, and on CD4-8- cells that express alpha/beta and gamma/delta TCR. The level of CD28 on mature CD4+ and CD8+ alpha/beta TCR+ thymocytes is two- to fourfold lower than on the immature cells. Diseases associated with CD28 dysfunction include mycosis fungoides and Sezary's Disease.

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**CD28 Antibody (MA5-17468) in Flow**

Flow cytometric analysis of spleen cells stained using a CD28/Tp44 monoclonal antibody (Product # MA1-70015) at a 1.0 µg/10<sup>6</sup> cells dilution. The isotype control was a mouse IgG1

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