

CD4 Monoclonal Antibody (MEM-16)

Catalog Number

MA1-19418

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgM	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	MEM-16	Flow Cytometry (Flow)	1-4 µg/mL
Immunogen	HPB cell line (human peripheral blood leukemia T-cells).	Immunoprecipitation (IP)	Assay-dependent
Conjugate	Unconjugated	* 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.	
Form	Liquid		
Concentration	1 mg/mL		
Purification	sequential chromatography		
Storage buffer	TBS, pH 8		
Contains	15mM sodium azide		
Storage Conditions	4° C, do not freeze		

Product specific information

This antibody recognizes an epitope EF loop of D1 domain of CD4 antigen. It will not cross-react with porcine.

Background/Target Information

The CD4 antigen is involved in the recognition of MHC class II molecules and is a co-receptor for HIV. CD4 is primarily expressed in a subset of T-lymphocytes, also referred to as T helper cells, but may also be expressed by other cells in the immune system, such as monocytes, macrophages, and dendritic cells. At the tissue level, CD4 expression may be detected in thymus, lymph nodes, tonsils, and spleen, and also in specific regions of the brain, gut, and other non-lymphoid tissues. CD4 functions to initiate or augment the early phase of T-cell activation through its association with the T-cell receptor complex and protein tyrosine kinase, Lck. It may also function as an important mediator of direct neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcripts have been identified in this gene [RefSeq, July 2017].

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