

Performance guaranteed



CD4 Monoclonal Antibody (RM4-5), Pacific

MCD0428TR

Blue

Catalog Number

Product data sheet

Thermo Fisher

SCIENTIFIC

Details		Species Reactivity	Species Reactivity	
Size	25 tests	Species reactivity	Mouse	
Host/Isotope	Rat / IgG2a	Published species	Mouse, Not Applicable	
Class	Monoclonal	Tested Applications	Dilution *	
Туре	Antibody	Flow Cytometry (Flow)	Assay-dependent	
Clone	RM4-5	Published Applications	Published Applications	
Immunogen	Mouse CD4	Miscellaneous PubMed (Misc)	See 2 publications below	
Conjugate	Pacific Blue™	Flow Cytometry (Flow)	See 2 publications below	
Form	Liquid		* 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.	
Storage Conditions	4° C, store in dark	experiment using appropriate negative and positive controls.		

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 Tlymphocytes, 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 immunemediated diseases of the central nervous system. Multiple alternatively spliced transcripts have been identified in this gene [RefSeq, July 2017].

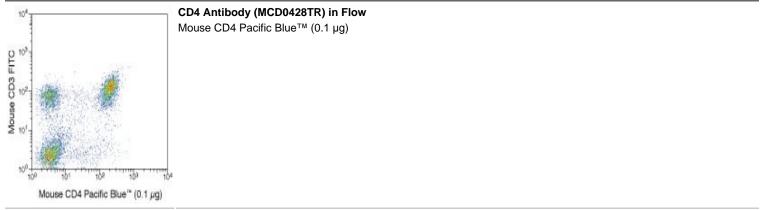
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Product Images For CD4 Monoclonal Antibody (RM4-5), Pacific Blue



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2 Miscellaneous PubMed F	References		
Species / Dilution	Summary		
Mouse / Not Cited	MCD0428TR was used in flow cytometry to determine the role of granzyme B in immune regulation during viral infection		
	Journal of immunology (Baltimore, Md. : 1950) (2011; 187: 6301) "Granzyme B regulates antiviral CD8+ T cell responses." Author(s):Salti SM,Hammelev EM,Grewal JL,Reddy ST,Zemple SJ,Grossman WJ,Grayson MH,Verbsky JW PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1100891		
Mouse / Not Cited	MCD0428TR was used in flow cytometry to examine Treg cell control of chronic autoimmunity in a lymphoreplete host.		
	Journal of immunology (Baltimore, Md. : 1950) (2013; 191: 5460) "Chronic follicular bronchiolitis requires antigen-specific regulatory T cell control to prevent fatal disease progression." Author(s):Schmitt EG,Haribhai D,Jeschke JC,Co DO,Ziegelbauer J,Yan K,Iwakura Y,Mishra MK,Simpson P,Salzman NH Williams CB PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1301576		
2 Flow Cytometry Reference	ces		
Species / Dilution	Summary		
Not Applicable / Not Cited	MCD0428TR was used in flow cytometry to determine the importance of ligand-activated N3 in promoting beta-selection and N1 intracellular domain-induced T cell leukemogenesis		
	PloS one (2012; 6:) "Notch3 is dispensable for thymocyte -selection and Notch1-induced T cell leukemogenesis." Author(s):Suliman S,Tan J,Xu K,Kousis PC,Kowalski PE,Chang G,Egan SE,Guidos C PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0024937		
Mouse / Not Cited	MCD0428TR was used in flow cytometry to identify T-cell epitopes of Francisella tularensis.		
	Immunology (2011; 132: 348) "Identification of T-cell epitopes in Francisella tularensis using an ordered protein array of serological targets." Author(s):Valentino MD,Maben ZJ,Hensley LL,Woolard MD,Kawula TH,Frelinger JA,Frelinger JG PubMed Article URL:http://dx.doi.org/10.1111/j.1365-2567.2010.03387.x		

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