

CD4 Monoclonal Antibody (GK1.5), PE

Catalog NumberA18667

Product data sheet

Details		Species Reactivity	
Size	25 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2b, kappa	Published species	Mouse
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	GK1.5	Published Applications	
Immunogen	Cloned mouse CTL line V41	Flow Cytometry (Flow)	See 1 publications below
Conjugate	PE	* 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	0.2 mg/mL		
Storage Conditions	4° C		

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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1 Flow Cytometry References

Species / Dilution	Summary
Mouse / Not Cited	A18667 was used in flow cytometry to study regulation of the lck in T cell lineage commitment.
	International immunology (2001; 13: 105) "Progression of T cell lineage restriction in the earliest subpopulation of murine adult thymus visualized by the expression of lck proximal promoter activity." Author(s): Shimizu C, Kawamoto H, Yamashita M, Kimura M, Kondou E, Kaneko Y, Okada S, Tokuhisa T, Yokoyama M, Taniguchi M, Katsura Y, Nakayama T PubMed Article URL: http://dx.doi.org/10.1093/intimm/13.1.105

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