

CD25 Monoclonal Antibody (CD25-3G10), PE

Catalog NumberMA1-35145

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	5 µL / 1x10^6 cells
Clone	CD25-3G10	Published Applications	
Immunogen	CD-25 receptor a-chain.	Miscellaneous PubMed (Misc)	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		
Purification	purified		
Storage buffer	PBS with 4mg/mL BSA		
Contains	0.1% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Background/Target Information

CD25 (IL2 receptor alpha chain/IL2RA) is a cytokine that plays a role in the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2RA) is a heterotrimeric protein complex with a gamma chain also shared by interleukin 4 (IL4) and interleukin 7 (IL7). IL2RA, IL2R beta chain (IL2RB), and the IL2R gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric IL2RA chains result in low-affinity receptor, while homodimeric IL2RB chains produce a medium-affinity receptor. The expression of IL2 in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. IL2 is primarily produced by mature T cells. IL2 plays an important role as a growth factor, differentiation factor, and regulator of cell death. IL-2 stimulates the proliferation of B cells, augments natural killer cell activity, and inhibits granulocyte macrophage colony formation. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests a role in the immune response to antigenic stimuli. Mutations in this gene are associated with interleukin 2 receptor alpha deficiency.

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PubMed References For CD25 Monoclonal Antibody (CD25-3G10), PE

1 Miscellaneous PubMed References

Species / Dilution	Summary
Human / Not Cited	MA1-35145 was used in flow cytometry to study synovial V delta 1 T cells during infection with B. burgdorferi.
	Journal of immunology (Baltimore, Md. : 1950) ( 1998; 161: 5762)
	"Lyme arthritis synovial gamma delta T cells respond to Borrelia burgdorferi lipoproteins and lipidated hexapeptides." Author(s): Vincent MS,Roessner K,Sellati T,Huston CD,Sigal LH,Behar SM,Radolf JD,Budd RC PubMed Article URL: <a href="http://www.ncbi.nlm.nih.gov/pubmed/9820558">http://www.ncbi.nlm.nih.gov/pubmed/9820558</a>

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