

CD25 Monoclonal Antibody (ITYV), APC

Catalog Number      MA1-12259

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	ITYV	Published Applications	
Immunogen	PHA-activated human T-lymphocytes	Immunocytochemistry (ICC/IF)	See 1 publications below
Conjugate	APC	* 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	Protein A/G		
Storage buffer	PBS with 0.2% carrier protein		
Contains	0.08% sodium azide		
Storage Conditions	4° C, 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 (ITYV), APC

1 Immunocytochemistry References

Species / Dilution	Summary
	MA1-12259 was used in immunocytochemistry to study the ability of a small molecule GSK3 inhibitor to prevent host-versus-graft disease in a murine humanized xenograft model
Human / Not Cited	Experimental hematology ( 2013; 41: 39) <b>"GSK3 inhibition prevents lethal GVHD in mice."</b> Author(s):Klamer G,Shen S,Song E,Rice AM,Knight R,Lindeman R,O'Brien TA,Dolnikov A PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.exphem.2012.09.005">http://dx.doi.org/10.1016/j.exphem.2012.09.005</a>

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