

CD25 Monoclonal Antibody (OX-39), Biotin

Catalog NumberMA5-17492

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Rat
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	0.5 µg/1x10^6 cells
Type	Antibody	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Clone	OX-39	Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent
Immunogen	T blasts from a mixed lymphocyte reaction between purified CD4 positive T cells and irradiated spleens.		
Conjugate	Biotin		
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	Protein G		
Storage buffer	PBS with 4-5mg/mL BSA		
Contains	0.02% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

* 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.

Background/Target Information

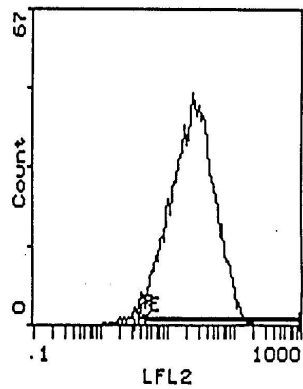
CD25 (IL2 receptor alpha chain/IL2RA) is a cytokine that plays a role in the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2RA) is a heterotrimeric protein complex with a gamma chain also shared by interleukin 4 (IL4) and interleukin 7 (IL7). IL2RA, IL2R beta chain (IL2RB), and 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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CD25 Antibody (MA5-17492) in Flow

Flow cytometric analysis of T Cell blasts stained using anti-CD25/IL-2R alpha chain Monoclonal Antibody (Product # MA5-17491) at a 0.5 $\mu\text{g}/10^6$ cells dilution. The Isotype control was a Biotin Mouse IgG1

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