

CD25 Monoclonal Antibody (YTH906.9HL), APC

Catalog NumberMA5-17678

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rat / IgG2b	Tested Applications	
Class	Monoclonal	Dilution *	
Type	Antibody	Flow Cytometry (Flow)	0.5 µg/1x10^6 cells
Clone	YTH906.9HL	* 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.	
Immunogen	Rat monoclonal antibody raised against activated human T lymphocytes		
Conjugate	APC		
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	4° C, do not freeze		

Product specific information

MA5-17678 targets CD25/IL-2R alpha chain in FACS and WB applications and shows reactivity with Human samples. The MA5-17678 immunogen is rat monoclonal antibody raised against activated human T lymphocytes.

Background/Target Information

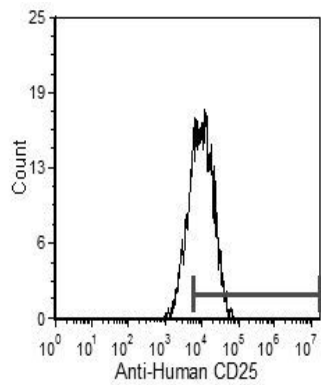
CD25 (IL2 receptor alpha chain/IL2RA) is a cytokine that plays a role in the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2RA) is a heterotrimeric protein complex with a gamma chain also shared by interleukin 4 (IL4) and interleukin 7 (IL7). IL2RA, IL2R beta chain (IL2RB), and 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 (MA5-17678) in Flow

Flow cytometric analysis of Human T-cell Blasts staining using anti-CD25/IL-2R alpha chain Monoclonal Antibody (Product # MA5-17678) at a 0.5 µg/10⁶ cells dilution.

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