

CD25 Monoclonal Antibody (MEM-181), PerCP

Catalog NumberA15802

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody	Flow Cytometry (Flow)	10 µL/1x10^6 cells
Clone	MEM-181	* 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	PHA-activated peripheral blood leucocytes		
Conjugate	PerCP		
Form	Liquid		
Purification	Size-exclusion chromatography		
Storage buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	15mM sodium azide		
Storage Conditions	4° C		

Background/Target Information

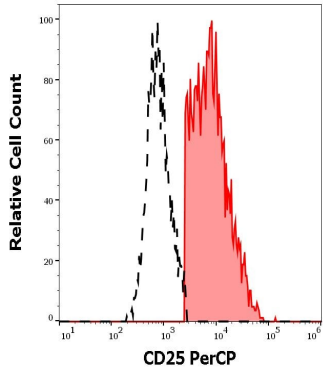
CD25 (IL2 receptor alpha chain/IL2RA) is a cytokine that plays a role in the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2RA) is a heterotrimeric protein complex with a gamma chain also shared by interleukin 4 (IL4) and interleukin 7 (IL7). IL2RA, IL2R beta chain (IL2RB), and 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 (A15802) in Flow

Separation of CD25 positive cells stained using anti-human CD25 (MEM-181) PerCP Monoclonal antibody (Product # A15802) (10 μ L reagent per million cells in 100 μ L of cell suspension, red-filled) from cells stained using mouse IgG1 isotype control (MOPC-21) PerCP antibody (concentration in sample 3 μ g/mL, same as CD25 PerCP concentration, black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral human blood mononuclear cells.

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