

CD25 Monoclonal Antibody (PC61 5.3), Pacific Blue

Catalog Number **RM6028**

Product data sheet

Details		Species Reactivity	
Size	1 mL	Species reactivity	Mouse
Host/Isotope	Rat / IgG1	Published species	Mouse
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * 0.1-0.25 µg / 1x10 ⁶ cells
Clone	PC61 5.3	Published Applications	
Immunogen	B6.1 cells.	Flow Cytometry (Flow)	See 1 publications below
Conjugate	Pacific Blue™	* 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		
Concentration	0.1 mg/mL		
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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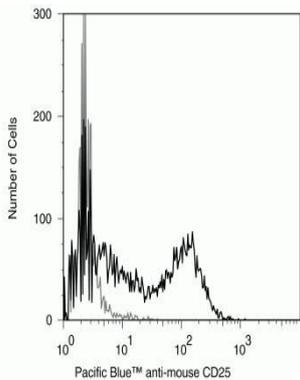
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CD25 Antibody (RM6028) in Flow

Activated (black) and normal (gray) C57BL/6 spleen cells with Pacific Blue anti-mouse CD25 monoclonal antibody (Product # RM6028) and FITC-conjugated anti-human CD3 (Product # MHCD0301).



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PubMed References For CD25 Monoclonal Antibody (PC61 5.3), Pacific Blue

1 Flow Cytometry References

Species / Dilution	Summary
	RM6028 was used in Flow cytometry/Cell sorting to identify a Blimp1-dependent pathway that preserves Treg cell stability in inflamed non-lymphoid tissues.
Mouse / Not Cited	Cell reports (2019; 26: 1854) "Blimp1 Prevents Methylation of Foxp3 and Loss of Regulatory T Cell Identity at Sites of Inflammation." Author(s):Garg G,Muschaweckh A,Moreno H,Vasanthakumar A,Floess S,Lepenmetier G,Oellinger R,Zhan Y,Regen T, Hiltensperger M,Peter C,Aly L,Knier B,Palam LR,Kapur R,Kaplan MH,Waisman A,Rad R,Schotta G,Huehn J,Kallies A, Korn T PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2019.01.070

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