

FOXP3 Monoclonal Antibody (3G3), PE

Catalog NumberA18690

Product data sheet

Details		Species Reactivity	
Size	25 µg	Species reactivity	Mouse
Host/Isotope	Mouse / IgG1, kappa	Published species	Mouse
Class	Monoclonal	Tested ApplicationsDilution *	
Type	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	3G3	* 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	Full-length his-tagged recombinant murine FoxP3		
Conjugate	PE		
Form	Liquid		
Concentration	0.2 mg/mL		
Storage Conditions	4° C		

Background/Target Information

FOXP3 (Forkhead box protein 3) is a member of the forkhead/winged-helix family of transcriptional regulators, highly conserved across mammals, and essential for normal immune homeostasis. FOXP3 is 381 amino acids long, stably and constitutively expressed at a high level in CD25 + CD4 positive regulatory T cells, a low level in CD4-positive/CD25-negative cells, and is absent in CD4-negative/CD8-positive T cells. FOXP3 may be a master regulatory gene, and a more specific marker of regulatory T cells. Defects in the gene encoding FOXP3 protein cause the scurfy phenotype in mice. In humans FOXP3 defects play a role in IPEX syndrome (immune dysfunction, polyendocrinopathy, enteropathy, X-linked syndrome), also known as X-linked autoimmunity-allergic dysregulation (XLAAD) syndrome. Transcript variants of FOXP3 encoding different isoforms have been identified. In human breast and colon cancer cells, expression of FOXP3 is regulated by p53 in response to the DNA damage.

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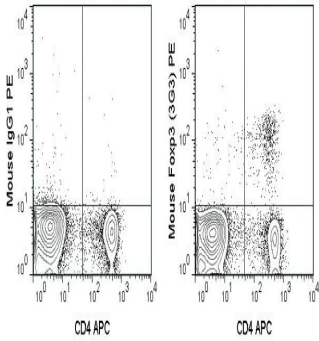
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FOXP3 Antibody (A18690) in Flow

C57Bl/6 splenocytes were stained with APC Anti-Mouse CD4 (Product # A18606), followed by intracellular staining with 0.125 µg PE Anti-Mouse Foxp3 (Product # A18690) (right panel) or 0.125 µg PE Mouse IgG1 isotype control (left panel).



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