

FOXP3 Monoclonal Antibody (3G3)

Catalog NumberMA5-16222

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Mouse / IgG1, kappa	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	3G3	Flow Cytometry (Flow)	100 ng/ million cells in 50 µL
Immunogen	Full-length His-tagged murine FOXP3 was used as the immunogen.	Western Blot (WB)	2-5 µg/mL
		* 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.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.05% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

Suggested positive control: antigen standard for FOXP3 (transient overexpression lysate), human Lymph Node protein, mouse lymph node cells.

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.

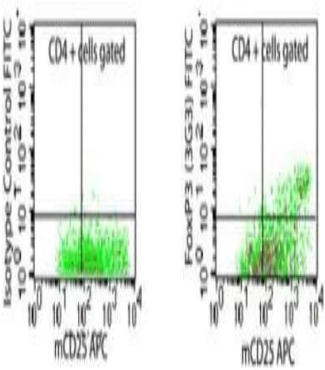
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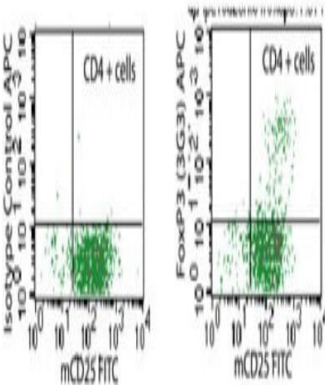
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Product Images For FOXP3 Monoclonal Antibody (3G3)



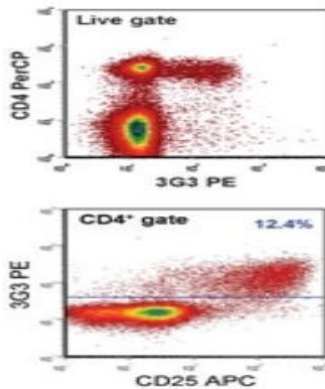
FOXP3 Antibody (MA5-16222) in Flow

Flow cytometry of FOXP3 in mouse splenocytes stimulated with anti-mCD3 and rmlL-2 for 48 hours using isotype control (left) and (right). Samples were incubated in FOXP3 monoclonal antibody (Product # MA5-16222) using a dilution of 0.5  $\mu\text{g}/10^6$  cells.



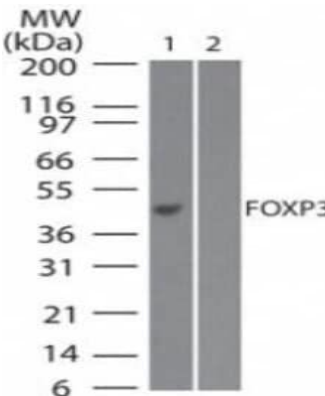
FOXP3 Antibody (MA5-16222) in Flow

Flow cytometry of FOXP3 in mouse splenocytes stimulated with anti-mCD3 and rmlL-2 for 48 hours using isotype control (left) and (right). Samples were incubated in FOXP3 monoclonal antibody (Product # MA5-16222) using a dilution of 0.1  $\mu\text{g}/10^6$  cells.



FOXP3 Antibody (MA5-16222) in Flow

Flow cytometry of FOXP3 in  $2 \times 10^6$  mouse lymph node cells. Samples were incubated in FOXP3 monoclonal antibody (Product # MA5-16222) using a dilution of 0.1  $\mu\text{g}$ . Analysis using the azide free and PE conjugated antibody.



FOXP3 Antibody (MA5-16222) in WB

Western blot analysis of FOXP3 in 1) full-length transfected and 2) mock transfected 293 cell lysate. Samples were incubated in FOXP3 monoclonal antibody (Product # MA5-16222) using a dilution of 2  $\mu\text{g}/\text{mL}$ .

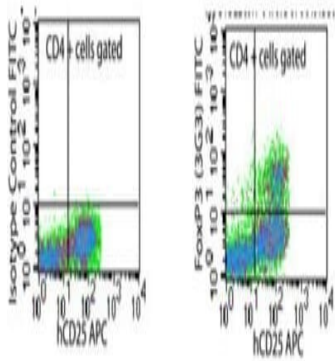
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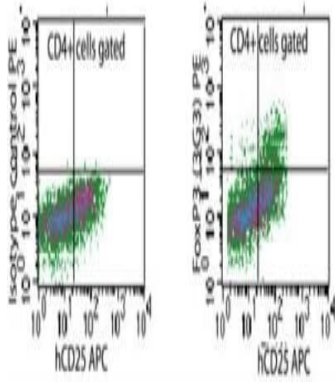
**FOXP3 Antibody (MA5-16222) in Flow**

Flow cytometry of FOXP3 in human PBMCs stimulated with anti-hCD3 and rhIL-2 for 48 hours. Samples were incubated in FOXP3 monoclonal antibody (Product # MA5-16222) using a dilution of 5 µg/10<sup>6</sup> cells and isotype control (left). Analysis using the FITC conjugate version of antibody. Products used: anti-CD4 PE conjugate, anti-CD25 APC conjugate, anti-FOXP3 FITC conjugate.



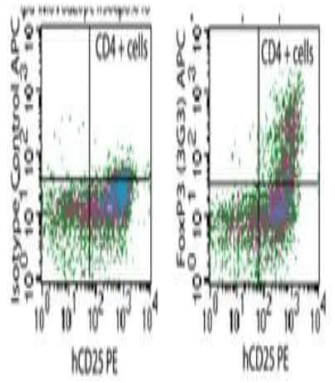
**FOXP3 Antibody (MA5-16222) in Flow**

Flow cytometry of FOXP3 in human PBMCs stimulated with anti-hCD3 and rhIL-2 for 48 hours. Samples were incubated in FOXP3 monoclonal antibody (Product # MA5-16222) using a dilution of 1 µg/10<sup>6</sup> cells and isotype control (left). Analysis using the azide free version of antibody. Products used: anti-CD4 FITC conjugate, anti-CD25 APC conjugate.



**FOXP3 Antibody (MA5-16222) in Flow**

Flow cytometry of FOXP3 in human PBMCs stimulated with anti-hCD3 and rhIL-2 for 48 hours. Samples were incubated in FOXP3 monoclonal antibody (Product # MA5-16222) using a dilution of 1 µg/10<sup>6</sup> cells and isotype control (left). Antibody conjugated to Allophycocyanin. Products used: anti-CD4 FITC conjugate.



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