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Product datasheet for TA336416

FOXP3 Mouse Monoclonal Antibody [Clone ID: 3G3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3G3
Applications:	FC, WB
Recommended Dilution:	Western Blot: 2 - 5 ug/mL, Flow Cytometry: 100 ng/ 10^6 cells in 50 uL
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Full-length His-tagged murine FOXP3 was used as the immunogen. The precise epitope is not known, but it has been mapped to the N-terminal portion of the protein (NP_001107849).
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at -20C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	47 kDa
Gene Name:	forkhead box P3
Database Link:	NP_054728 Entrez Gene 20371 MouseEntrez Gene 50943 Human Q9BZS1

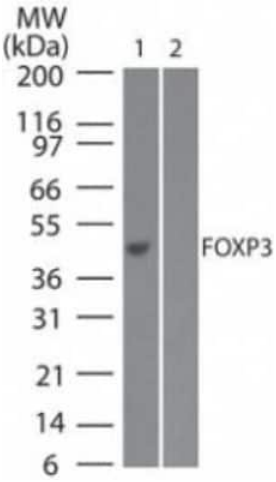
View online »

Background: One of the many immunotolerance mechanisms that the immune system has developed to distinguish between self and non-self antigens is regulatory T cells or Tregs. Several elegant experiments using transgenic mice and retrovirus-mediated over expression studies, have led to the identification of FoxP3, a transcription factor, as a specific molecular marker essential for the development and function of Tregs. The primary evidence regarding the involvement of FoxP3 in the development of Tregs was provided in patients suffering from IPEX, a rare and fatal human autoimmune disease. The emergence of Tregs and the role of FoxP3 as a critical player in the negative control of various normal and pathological immune responses holds great promise for the development of novel therapies for autoimmune diseases.

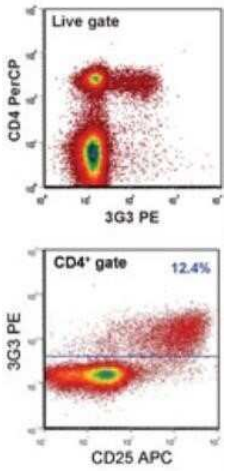
Synonyms: AIID; DIETER; IPEX; JM2; PIDX; XPID

Protein Families: Transcription Factors

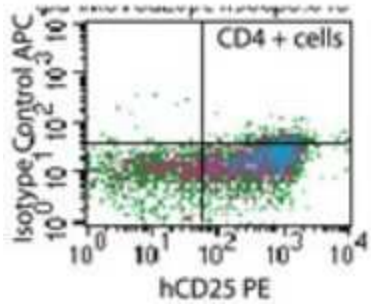
Product images:

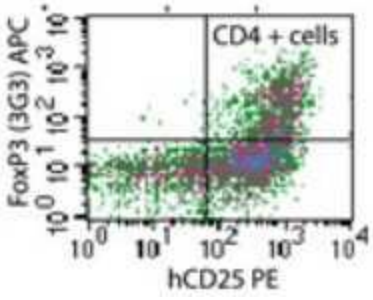


Western Blot: FoxP3 Antibody (3G3) TA336416 - Analysis using the azide free version of TA336416. Detection of 1) full-length transfected and 2) mock transfected 293 cell lysate at 2 ug/mL.

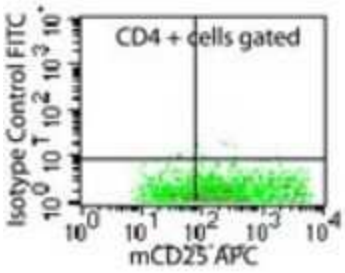


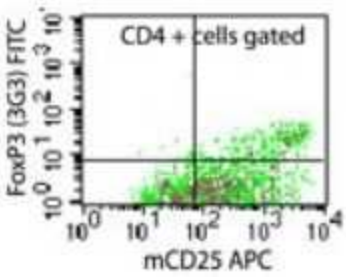
Flow Cytometry: FoxP3 Antibody (3G3) TA336416 - Analysis using the azide free version of TA336416. Staining of 2 x 10^6 mouse lymph node cells using 0.1 ug of PE conjugated antibody.



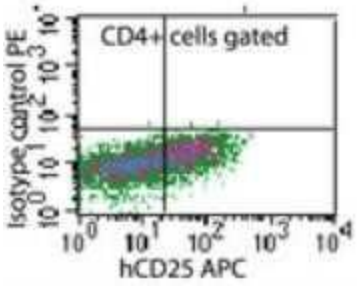


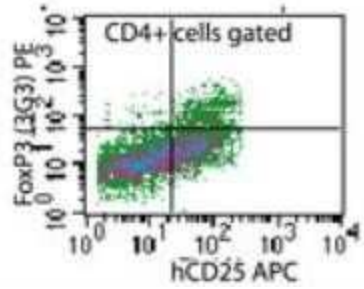
Flow Cytometry: FoxP3 Antibody (3G3) TA336416 - Analysis using the Allophycocyanin conjugate of TA336416. Staining of FOXP3 in human PBMCs stimulated with anti-hCD3 and rhIL-2 for 48 hours using isotype control (left) and this antibody. 1 ug/10^6 cells. Products used: anti-CD4 FITC conjugate.



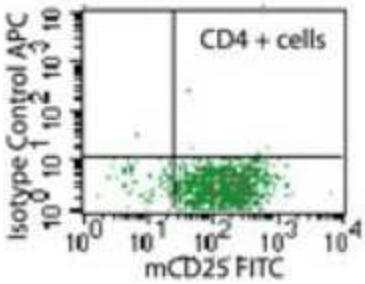


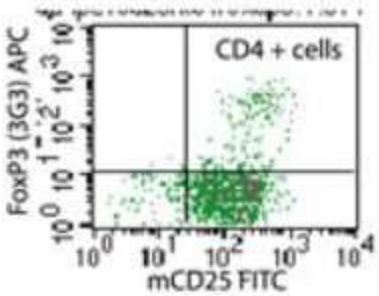
Flow Cytometry: FoxP3 Antibody (3G3) TA336416 - Analysis using the FITC conjugate of TA336416. Staining of FOXP3 in mouse splenocytes stimulated with anti-mCD3 and rmIL-2 for 48 hours using isotype control (left) and (right) at 0.5 ug/10^6 cells. Anti-CD25 APC conjugate this antibody, anti-FOXP3 FITC.



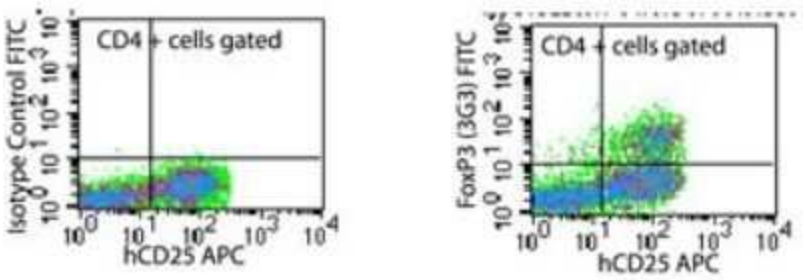


Flow Cytometry: FoxP3 Antibody (3G3) TA336416 - Analysis using the azide free version of TA336416. Staining of human PBMCs stimulated with anti-hCD3 and rhIL-2 for 48 hours using isotype control (left) and NBP2-33297PE (right) at 0.1 ug/10^6 cells. Products used: anti-CD4 FITC conjugate, anti-CD25 APC conjugate.





Flow Cytometry: FoxP3 Antibody (3G3) TA336416 - Analysis using the Allophycocyanin conjugate of TA336416. Staining of FOXP3 in mouse splenocytes stimulated with anti-mCD3 and rmIL-2 for 48 hours using isotype control (left) and (right) at 0.1 ug/10^6 cells. Anti-CD25 FITC conjugate this antibody, anti-FOXP3 FITC.



Flow Cytometry: FoxP3 Antibody (3G3) TA336416 - Analysis using the FITC conjugate of TA336416. Staining of FOXP3 in human PBMCs stimulated with anti-hCD3 and rhIL-2 for 48 hours using isotype control (left) and this antibody, 5 ug/10^6 cells. Products used: anti-CD4 PE conjugate, anti-CD25 APC conjugate, anti-FOXP3 FITC conjugate.