

## Anti-FOXP3 (Forkhead Box Protein P3) / Scurfin Monoclonal Antibody

Catalog Number: M00011

### About FOXP3

Recognizes a protein of 47-55kDa, which is identified as FOXP3. Its precise epitope is not known, but it has been mapped to the N-terminal portion of the protein. The FOX family of transcription factors is a large group of proteins that share a common DNA binding domain termed a winged-helix or forkhead domain. During early development, FOXP1 and FOXP2 are expressed abundantly in the lung, with lower levels of expression in neural, intestinal and cardiovascular tissues, where they act as transcription repressors. FOXP1 is widely expressed in adult tissues, while neoplastic cells often exhibit a dramatic change in expression level or localization of FOXP1. Mutations in FOXP3 gene cause IPEX, a fatal, X-linked inherited disorder characterized by immune dysregulation. The FOXP3 protein is essential for normal immune homeostasis. Specifically, FOXP3 represses transcription through a DNA binding forkhead domain, thereby regulating T cell activation.

### Overview

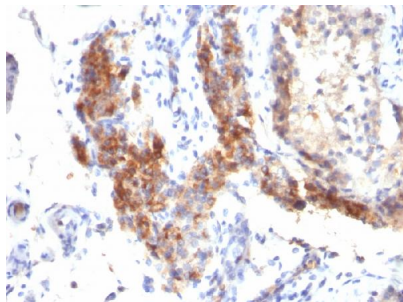
Product Name	Anti-FOXP3 (Forkhead Box Protein P3) / Scurfin Monoclonal Antibody
Reactive Species	Human, Monkey, Mouse
Description	Boster Bio Anti-FOXP3 (Forkhead Box Protein P3) / Scurfin Monoclonal Antibody (Catalog # M00011). Tested in Flow Cytometry, WB, IHC applications. This antibody reacts with Human, Monkey, Mouse.
Conjugate	Biotin
Application	Flow Cytometry, IHC, WB
Clonality	Monoclonal Clone: SPM579
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	Q9BZS1

### Technical Details

Immunogen	Full-length human FOXP3 protein
Predicted Reactive Species	Chimpanzee
Isotype	IgG1, kappa
Form	Liquid

Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Western Blot (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9.0, for 45 min at 95&amp;degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.</p>

## Anti-FOXP3 (Forkhead Box Protein P3) / Scurfin Monoclonal Antibody (M00011) Images



Formalin-fixed, paraffin-embedded human testicular carcinoma stained with Anti-FOXP3 Monoclonal Antibody (SPM579).

## 6 Publications Citing This Product

1. PubMed ID: 27698748, IL-35 improves Treg-mediated immune suppression in atherosclerotic mice
2. PubMed ID: 24573301, Xu D, Yu H, Yu Q, Wu S, Liu D, Lin Y, Zhang Y, Zheng C. Mol Med Rep. 2014 May;9(5):1947-51. Doi: 10.3892/Mmr.2014.1986. Epub 2014 Feb 25. Salvia Miltiorrhiza Increases The Expression Of Transcription Factor Foxp3 In Experimental Murine Colitis.
3. PubMed ID: 26064167, Gong T, Wang Cf, Yuan Jr, Li Y, Gu Jf, Zhao Bj, Zhang L, Jia Xb, Feng L, Liu Sl. Evid Based Complement Alternat Med. 2015;2015:630760. Doi: 10.1155/2015/630760. Epub 2015 May 3. Inhibition Of Tumor Growth And Immunomodulatory Effects Of Flavonoids...

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