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DATA SHEET

Mouse Anti-FOXP3 [SPM579]: MC0044, MC0044RTU7

Intended Use: For Research Use Only

Description: 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.

Specifications

Clone:	SPM579
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, monkey
Immunogen:	Full-length human FOXP3 protein
Localization:	Predominantly nucleus, some cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., ICC/IF

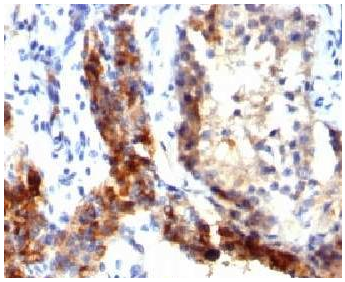
Package:

Description	Catalog No.	Size
FOXP3 Concentrated	MC0044	1 ml
FOXP3 Prediluted	MC0044RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Tonsil, lymph node, breast carcinoma
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human testicular carcinoma stained with anti-FOXP3 using DAB

References

1. PD-L1 Expression Is Associated with Tumor FOXP3(+) Regulatory T-Cell Infiltration of Breast Cancer and Poor Prognosis of Patient. Li Z, et al. J Cancer. Apr 10;7(7):784-93, 2016.
2. High intratumoral FOXP3^{+} T regulatory cell (Tregs) density is an independent good prognosticator in nodal negative colorectal cancer. Hanke T, et al. Int J Clin Exp Pathol. Jul 1;8(7):8227-35, 2015.
3. Scurfin (FOXP3) acts as a repressor of transcription and regulates T cell activation. Schubert, L.A., et al. J. Biol. Chem. 276: 37672-37679, 2001.

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