

#12653 Store at -20C

FoxP3 (D6O8R) Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: IHC-Bond, IHC-P, IF-F, FC-FP	Reactivity: M Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BZS1	Entrez-Gene Id: 50943
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Product Usage Information	Application IHC Leica Bond Immunohistochemistry (Paraffin) Immunofluorescence (Frozen) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:800 - 1:3200 1:200 - 1:800 1:400 - 1:800 1:50 - 1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #72338.	
Specificity / Sensitivity	FoxP3 (D6O8R) Rabbit mAb recognizes endogenous levels of total FoxP3 protein. This antibody recognizes mouse FoxP3 protein and is also reactive with human FoxP3; however, this antibody is not suggested for immunohistochemical analysis of human tissues. Instead, FoxP3 (D2W8E™) Rabbit mAb (IHC Specific) #98377 is recommended for IHC analysis of human tissue samples. Monkey cross-reactivity is determined by immunohistochemistry.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro44 of mouse FoxP3 protein.	
Background	<p>Forkhead box (Fox) proteins are a family of evolutionarily conserved transcription factors containing a sequence known as Forkhead box or winged helix DNA binding domain (1). The human genome contains 43 Fox proteins that are divided into subfamilies. The FoxP subfamily has four members, FoxP1 - FoxP4, which are broadly expressed and play important roles in organ development, immune response, and cancer pathogenesis (2-4). The FoxP subfamily has several characteristics that are atypical among Fox proteins: their Forkhead domain is located at the carboxy-terminal region and they contain motifs that promote homo- and heterodimerization. FoxP proteins usually function as transcriptional repressors (4,5).</p> <p>FoxP3 is crucial for the development of T cells with regulatory properties (Treg) (6). Mutations in FoxP3 are associated with immune dysregulation, polyendocrinopathy, enteropathy, and X-linked syndrome (IPEX) (7), while overexpression in mice causes severe immunodeficiency (8). Research studies have shown that FoxP3 functions as a tumor suppressor in several types of cancer (9-11).</p>	
Background References	<ol style="list-style-type: none"> Myatt, S.S. and Lam, E.W. (2007) <i>Nat Rev Cancer</i> 7, 847-59. Shu, W. et al. (2001) <i>J Biol Chem</i> 276, 27488-97. Lu, M.M. et al. (2002) <i>Gene Expr Patterns</i> 2, 223-8. Koon, H.B. et al. (2007) <i>Expert Opin Ther Targets</i> 11, 955-65. Li, S. et al. (2004) <i>Mol Cell Biol</i> 24, 809-22. Ochs, H.D. et al. (2007) <i>Immunol Res</i> 38, 112-21. Bennett, C.L. et al. (2001) <i>Nat Genet</i> 27, 20-1. Kasprowicz, D.J. et al. (2003) <i>J Immunol</i> 171, 1216-23. Zuo, T. et al. (2007) <i>Cell</i> 129, 1275-86. Zuo, T. et al. (2007) <i>J Clin Invest</i> 117, 3765-73. Wang, L. et al. (2009) <i>Cancer Cell</i> 16, 336-46. 	

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IHC-Bond: IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen)
FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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