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FoxP3 (D6O8R) Rabbit mAb (Alexa Fluor® 488 Conjugate)


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Applications: IF-F, FC-FP	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BZS1	Entrez-Gene Id: 50943
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Product Usage Information	Application Immunofluorescence (Frozen) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50 - 1:200 1:100
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity / Sensitivity	FoxP3 (D6O8R) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total FoxP3 protein. This antibody recognizes both human and mouse FoxP3 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro44 of mouse FoxP3 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometry in mouse cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated FoxP3 (D6O8R) Rabbit mAb (Flow Preferred) #12653.	
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	1. Myatt, S.S. and Lam, E.W. (2007) <i>Nat Rev Cancer</i> 7, 847-59. 2. Shu, W. et al. (2001) <i>J Biol Chem</i> 276, 27488-97. 3. Lu, M.M. et al. (2002) <i>Gene Expr Patterns</i> 2, 223-8. 4. Koon, H.B. et al. (2007) <i>Expert Opin Ther Targets</i> 11, 955-65. 5. Li, S. et al. (2004) <i>Mol Cell Biol</i> 24, 809-22. 6. Ochs, H.D. et al. (2007) <i>Immunol Res</i> 38, 112-21. 7. Bennett, C.L. et al. (2001) <i>Nat Genet</i> 27, 20-1. 8. Kasprowicz, D.J. et al. (2003) <i>J Immunol</i> 171, 1216-23. 9. Zuo, T. et al. (2007) <i>Cell</i> 129, 1275-86. 10. Zuo, T. et al. (2007) <i>J Clin Invest</i> 117, 3765-73. 11. 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	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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