

## £98377

## FoxP3 (D2W8E) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> IHC-Bond, IHC-P	Reactivity: H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 45	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q9BZS1	Entrez-Gene Id: 50943
Product Usage Information		<b>Application</b> IHC Leica Bond Immunohistochemistry (Paraffin)			<b>Dilution</b> 1:50 1:50 - 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/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 #74816.				
Specificity/Sensitivity		FoxP3 (D2W8E) Rabbit mAb recognizes endogenous levels of total FoxP3 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human FoxP3.				
Background		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).  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				
Background Ref	ferences	shown that FoxP3 functions as a tumor suppressor in several types of cancer (9-11).  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** 

IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)

**Cross-Reactivity Key** 

H: Human Mk: Monkey

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