TCF1/TCF7 (C63D9) Rabbit mAb



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Applications: W, IP, IHC-P, IF-F, IF- IC, FC-FP, ChIP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 48, 50	Source/Isotype: Rabbit IgG	UniProt ID: #P36402	Entrez-Gene Id: 6932
Product Usage Information		For optimal ChIP results, use 10 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Dilution				
		Western Blotting			1:1000	
		Immunoprecipitation			1:50	
		Immunohistochemistry (Paraffin)			1:50 - 1:200	
		Immunofluorescence (Frozen)			1:800	
		Immunofluorescence (Immunocytochemistry)			1:200 - 1:800	
		Flow Cytometry (Fixed/Permeabilized)			1:50 - 1:200	
		Chromatin IP			1:5	0
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ 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 #85942				
Specificity/Sensitivity		TCF1/TCF7 (C63D9) Rabbit mAb detects endogenous levels of total TCF1/TCF7 protein. This antibody does not recognize the dominant negative isoforms of TCF1/TCF7 lacking the amino-terminal β -catenin binding domain and does not cross-react with LEF1. TCF1/TCF7 (C63D9) non-specifically labels glomeruli of kidney and fiber-like structures in adipose tissue, skeletal muscle, lung, ovary, colon, and spleen by immunofluorescence. Non-specific nuclear signal was observed in various epithelial cells by immunohistochemistry.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to a region surrounding Pro96 of human TCF1/TCF7 protein.				
Background		LEF1 and TCF are members of the high mobility group (HMG) DNA-binding protein family of transcription factors that consists of the following: Lymphoid Enhancer Factor 1 (LEF1), T Cell Factor 1 (TCF1/TCF7), TCF3/TCF7L1, and TCF4/TCF7L2 (1). LEF1 and TCF1/TCF7 were originally identified as important factors that regulate early lymphoid development (2) and act downstream in Wnt signaling. LEF1 and TCF bind to Wnt response elements to provide docking sites for β -catenin, which translocates to the nucleus to promote the transcription of target genes upon activation of Wnt signaling (3). LEF1 and TCF are dynamically expressed during development and aberrant activation of the Wnt signaling pathway is involved in many types of cancers, including colon cancer (4,5).				
		promoter. The isoform	ms generated by the ain and therefore m pression both in the	lternative splicing and treal alternative promoter delay function in a domina total amount and the ty (7).	o not contain the ar nt negative manner	nino-terminal β- (6). TCF1/TCF7
Background References		 Waterman, M.L. (2004) Cancer Metastasis Rev 23, 41-52. Schilham, M.W. and Clevers, H. (1998) Semin Immunol 10, 127-32. Brantjes, H. et al. (2002) Biol Chem 383, 255-61. Reya, T. and Clevers, H. (2005) Nature 434, 843-50. Logan, C.Y. and Nusse, R. (2004) Annu Rev Cell Dev Biol 20, 781-810. Waterman, M.L. (2004) Cancer Metastasis Rev. 23, 41-52. Willinger, T. et al. (2006) J. Immunol. 176, 1439-1446. 				

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F:

Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow

Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP

Cross-Reactivity Key H: Human M: Mouse

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