

£2565

TCF4/TCF7L2 (C9B9) Rabbit mAb



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

Applications: W, IP, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 58, 79	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NQB0	Entrez-Gene Id: 6934
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Western Blotting Immunoprecipitation Chromatin IP			Dilution 1:1000 1:50 1:50	
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.				
Specificity/Sensitivity		TCF4/TCF7L2 (C9B9) Rabbit mAb detects endogenous levels of total TCF4/TCF7L2 protein.				
Species predicted to react based on 100% sequence homology		Mouse, Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu81 of human TCF4/TCF7L2.				
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). TCF4/TCF7L2 is expressed widely during development. Gene targeting studies indicate that TCF4/TCF7L2 is required to maintain the crypt stem cells of the small intestine (6,7). TCF4/TCF7L2 has several splicing isoforms which are expressed differentially in tissues and during cancer progression (8,9). Studies also indicate that a variant of the TCF4/TCF7L2 gene confers an increased risk of type 2				
Background References		diabetes (10). 1. Waterman, M.L. (2004) <i>Cancer Metastasis Rev</i> 23, 41-52. 2. Schilham, M.W. and Clevers, H. (1998) <i>Semin Immunol</i> 10, 127-32. 3. Brantjes, H. et al. (2002) <i>Biol Chem</i> 383, 255-61. 4. Reya, T. and Clevers, H. (2005) <i>Nature</i> 434, 843-50. 5. Logan, C.Y. and Nusse, R. (2004) <i>Annu Rev Cell Dev Biol</i> 20, 781-810. 6. Cho, E.A. and Dressler, G.R. (1998) <i>Mech. Dev.</i> 77, 9-18. 7. Korinek, V. et al. (1998) <i>Nat. Genet.</i> 19, 379-383. 8. Howng, S.L. et al. (2004) <i>Int. J. Oncol.</i> 25, 1685-1692. 9. Shiina, H. et al. (2003) <i>Clin. Cancer Res.</i> 9, 2121-2132. 10. Grant, S.F. et al. (2006) <i>Nat. Genet.</i> 38, 320-323.				

Species Reactivity

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

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 ChIP: Chromatin IP

Cross-Reactivity Key

H: Human

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