

#2883 Store at -20C

TCF3/TCF7L1 (D15G11) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H Mk	Endogenous	78	Rabbit	#Q9HCS4	83439

Product Usage Information	Application Western Blotting	Dilution 1:1000
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.	
Specificity / Sensitivity	TCF3/TCF7L1 (D15G11) Rabbit mAb detects endogenous levels of total TCF3/TCF7L1 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln96 of human TCF3/TCF7L1.	
Background	<p>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).</p> <p>TCF3/TCF7L1 plays an important role in integrating Wnt signaling with control of stem cell differentiation (6-8).</p>	
Background References	<ol style="list-style-type: none"> 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. Merrill, B.J. et al. (2001) <i>Genes Dev.</i> 15, 1688-1705. 7. Nguyen, H. et al. (2006) <i>Cell</i> 127, 171-183. 8. Cole, M.F. et al. (2008) <i>Genes Dev.</i> 22, 746-755. 	

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	WB: Western Blotting
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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