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2286

LEF1 (C18A7) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 25-58	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJU2	Entrez-Gene Id: 51176		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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 LEF1 (C18A7) Rabbit mAb detects endogen negative forms due to the usage of alternative forms due to the usage of alterna				nous level of total LEF1 proteins, including the dominant native promoter.				
Source / Purification Monoclonal antibody i residues surrounding			is produced by immunizing animals with a synthetic peptide corresponding to Val282 of human LEF1.					
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). LEF1 has several isoforms due to alternative splicing. LEF1 also has an alternative promoter that is preferentially active in lymphocytes. The isoforms generated by this alternative promoter have no amino-terminal β-catenin binding domain, therefore, they may function in a dominant negative manner (6-8). 						
Background R	eferences	1. Waterman, M.L. (200 2. Schilham, M.W. and 3. Brantjes, H. et al. (20 4. Reya, T. and Clevers, 5. Logan, C.Y. and Nuss 6. Hovanes, K. et al. (20 7. Hovanes, K. et al. (20 8. Kobielak, A. et al. (20	Vaterman, M.L. (2004) <i>Cancer Metastasis Rev</i> 23, 41-52. chilham, M.W. and Clevers, H. (1998) <i>Semin Immunol</i> 10, 127-32. Brantjes, H. et al. (2002) <i>Biol Chem</i> 383, 255-61. Beya, T. and Clevers, H. (2005) <i>Nature</i> 434, 843-50. Logan, C.Y. and Nusse, R. (2004) <i>Annu Rev Cell Dev Biol</i> 20, 781-810. Hovanes, K. et al. (2000) <i>Nucleic Acids Res</i> 28, 1994-2003. Hovanes, K. et al. (2001) <i>Nat Genet</i> 28, 53-7. Kobielak, A. et al. (2001) <i>Acta Biochim Pol</i> 48, 221-6.					
Species Reacti	vitv	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer	IMPORTANT: For wester TBS, 0.1% Tween® 20 a	ern blots, incubate at 4°C with gentle s	e membrane with diluted primary antibody in 5% w/v BSA, 1X e shaking, overnight.				
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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