LEF1 (C12A5) Rabbit mAb (Alexa Fluor® 647 Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJU2	Entrez-Gene Id: 51176
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage			less than 0.1% sodium a	zide and 2 mg/ml BS	A. Store at 4°C. <i>Do not aliquot the</i>
Specificity/Sensitivity		LEF1 (C12A5) Rabbit mAb (Alexa Fluor [®] 647 Conjugate) detects endogenous level of total LEF1 protein. It does not recognize the dominant negative forms of LEF1 generated by an alternative promoter.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro82 of human LEF1.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated LEF1 (C12A5) Rabbit mAb #2230			
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).			
		preferentially active in ly	mphocytes. The isoforms	generated by this al	alternative promoter that is ternative promoter have no nant negative manner (6-8).
Background References		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. Hovanes, K. et al. (2000) <i>Nucleic Acids Res</i> 28, 1994-2003. 7. Hovanes, K. et al. (2001) <i>Nat Genet</i> 28, 53-7. 8. Kobielak, A. et al. (2001) <i>Acta Biochim Pol</i> 48, 221-6.			

Species Reactivity

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

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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