

56472

Lunatic Fringe (D6V2V) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit IgG	UniProt ID: #Q8NES3	Entrez-Gene Id: 3955
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200	
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		Lunatic Fringe (D6V2V) Rabbit mAb recognizes endogenous levels of total Lunatic Fringe protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu74 of human Lunatic Fringe protein.				
Background		Lunatic Fringe (Beta-1,3-N-acetylglucosaminyltransferase, LFNG) is a single-pass type II Golgi membrane glycosyltransferase that catalyzes the elongation of O-linked fucose residues on EGF-like repeats of Notch signaling molecules. Fucosylation of EGF-like repeats serves to fine-tune Notch ligand-receptor interactions, thereby modulating downstream Notch pathway activity (1). Studies in genetic mouse models have shown that Lunatic Fringe-mediated Notch regulation is critical for somite patterning during vertebrate embryogenesis (2-4). Consistent with this, loss-of-function mutations in human LFNG are associated with spondylocostal dysostoses, a heritable skeletal growth disorder characterized by malformations of the spinal column and thoracic structures (5). Lunatic Fringe continues to modulate Notch signaling postnatally (6), and is implicated as a putative tumor suppressor in multiple Notch-related cancers (7, 8).				
Background Re	ferences	1. Shimizu, K. et al. (2001) <i>J Biol Chem</i> 276, 25753-8. 2. Evrard, Y.A. et al. (1998) <i>Nature</i> 394, 377-81. 3. Zhang, N. and Gridley, T. (1998) <i>Nature</i> 394, 374-7. 4. Serth, K. et al. (2015) <i>PLoS One</i> 10, e0123776. 5. Sparrow, D.B. et al. (2006) <i>Am J Hum Genet</i> 78, 28-37. 6. Mukherjee, S. et al. (2014) <i>J Immunol</i> 192, 996-1003. 7. Zhang, S. et al. (2014) <i>Neoplasia</i> 16, 158-67. 8. Zhang, S. et al. (2015) <i>Oncogene</i> ,				

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

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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