#66472 Store at -20C

Lunatic Fringe (D6V2V) Rabbit



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

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

Applications: WB, 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	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
	Im	munoprecipitation			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 / Sensitiv	/ity Lun	Lunatic Fringe (D6V2V) Rabbit mAb recognizes endogenous levels of total Lunatic Fringe protein.					
Source / Purification Monoclonal antibody is produced by immunizing residues surrounding Leu74 of human Lunatic				nizing animals with a synthetic peptide corresponding to natic Fringe protein.			
Background	glyd sigr inte hav eml spo spir	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 Referer	2. E 3. Z 4. S 5. S 6. N	 Shimizu, K. et al. (2001) J Biol Chem 276, 25753-8. Evrard, Y.A. et al. (1998) Nature 394, 377-81. Zhang, N. and Gridley, T. (1998) Nature 394, 374-7. Serth, K. et al. (2015) PLoS One 10, e0123776. Sparrow, D.B. et al. (2006) Am J Hum Genet 78, 28-37. Mukherjee, S. et al. (2014) J Immunol 192, 996-1003. Zhang, S. et al. (2014) Neoplasia 16, 158-67. Zhang, S. et al. (2015) Oncogene, 					

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 IP: Immunoprecipitation

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

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Lunatic Fringe (D6V2V) Rabbit mAb (#66472) Datasheet Without Images Cell Signaling Technology

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.