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Lunatic Fringe Polyclonal Antibody

Catalog # AP70788

Product Information

Application	WB, E
Primary Accession	Q8NES3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41773

Additional Information

Gene ID	3955
Other Names	LFNG; Beta-1; 3-N-acetylglucosaminyltransferase lunatic fringe; O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

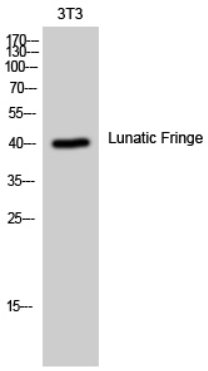
Name	LFNG (HGNC:6560)
Function	Glycosyltransferase that initiates the elongation of O-linked fucose residues attached to EGF-like repeats in the extracellular domain of Notch molecules. Modulates NOTCH1 activity by modifying O- fucose residues at specific EGF-like domains resulting in inhibition of NOTCH1 activation by JAG1 and enhancement of NOTCH1 activation by DLL1 via an increase in its binding to DLL1 (By similarity). Decreases the binding of JAG1 to NOTCH2 but not that of DLL1 (PubMed:11346656). Essential mediator of somite segmentation and patterning (By similarity).
Cellular Location	Golgi apparatus {ECO:0000250|UniProtKB:O09010}. Golgi apparatus membrane; Single-pass type II membrane protein

Background

Glycosyltransferase that initiates the elongation of O- linked fucose residues attached to EGF-like repeats in the extracellular domain of Notch molecules. Modulates NOTCH1 activity by modifying O-fucose residues at

specific EGF-like domains resulting in inhibition of NOTCH1 activation by JAG1 and enhancement of NOTCH1 activation by DLL1 via an increase in its binding to DLL1 (By similarity). Decreases the binding of JAG1 to NOTCH2 but not that of DLL1 (PubMed:11346656). Essential mediator of somite segmentation and patterning (By similarity).

Images



Western Blot analysis of 3T3 cells using Lunatic Fringe Polyclonal Antibody diluted at 1：1000