

产品名称: Lunatic Fringe Rabbit Polyclonal Antibody
产品货号: APRab13491



产品概述 (Summary)

产品名称 (Production Name)	Lunatic Fringe Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	LFNG
别名 (Alternative Names)	LFNG; Beta-1; 3-N-acetylglucosaminyltransferase lunatic fringe; O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
基因 ID (Gene ID)	3955.0
蛋白 ID (SwissProt ID)	Q8NES3.The antiserum was produced against synthesized peptide derived from human LFNG. AA range:121-170

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	42kDa

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研究背景 (Background)

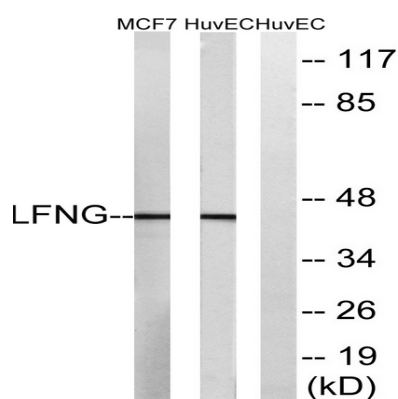
This gene is a member of the fringe gene family which also includes radical and manic fringe genes. They all encode evolutionarily conserved glycosyltransferases that act in the Notch signaling pathway to define boundaries during embryonic development. While their genomic structure is distinct from other glycosyltransferases, fringe proteins have a fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity that leads to elongation of O-linked fucose residues on Notch, which alters Notch signaling. This gene product is predicted to be a single-pass type II Golgi membrane protein but it may also be secreted and proteolytically processed like the related proteins in mouse and Drosophila (PMID: 9187150). Mutations in this gene have been associated with autosomal recessive spondylocostal dysostosis 3. Multiple transcript variants encoding different isoforms/alternative products: Experimental confirmation may be lacking for some isoforms, catalytic activity: Transfers a beta-D-GlcNAc residue from UDP-D-GlcNAc to the fucose residue of a fucosylated protein acceptor., caution: The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data., disease: Defects in LFNG are the cause of spondylocostal dysostosis autosomal recessive type 3 (SCDO3) [MIM:609813]. Autosomal recessive spondylocostal dysostosis is a rare condition of variable severity associated with vertebral and rib segmentation defects. The main skeletal malformations include fusion of vertebrae, hemivertebrae, fusion of certain ribs, and other rib malformations. Deformity of the chest and spine (severe scoliosis, kyphoscoliosis and lordosis) is a natural consequence of the malformation and leads to a dwarf-like appearance. As the thorax is small, infants frequently have respiratory insufficiency and repeated respiratory infections resulting in life-threatening complications in the first year of life., function: Glycosyltransferase that initiates the elongation of O-linked fucose residues attached to EGF-like repeats in the extracellular domain of Notch molecules. Decreases the binding of JAGGED1 to NOTCH2 but not that of DELTA1. Essential mediator of somite segmentation and patterning., online information: Beta-1,3-N-acetylglucosaminyltransferase lunatic fringe, online information: GlycoGene database, PTM: A soluble form may be derived from the membrane form by proteolytic processing ., similarity: Belongs to the glycosyltransferase 31 family.,

研究领域 (Research Area)

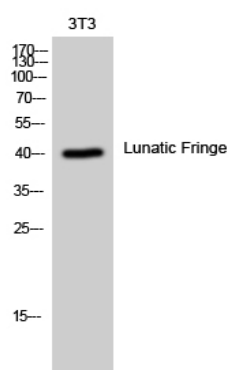
Notch;

图片 (Image Data)

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Western blot analysis of lysates from HUVEC and MCF-7 cells, using LFNG Antibody. The lane on the right is blocked with the synthesized peptide.



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

注意事项 (Note)

For research use only .