

Lunatic Fringe rabbit pAb

Cat#: orb768978 (Manual)

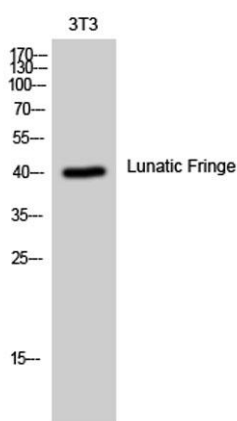
For research use only. Not intended for diagnostic use.

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| Product Name | Lunatic Fringe rabbit pAb |
| Host species | Rabbit |
| Applications | WB;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human LFNG. AA range:121-170 |
| Specificity | Lunatic Fringe Polyclonal Antibody detects endogenous levels of Lunatic Fringe protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Beta-1,3-N-acetylglucosaminyltransferase lunatic fringe |
| Gene Name | LFNG |
| Cellular localization | Golgi apparatus membrane ; Single-pass type II membrane protein . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |

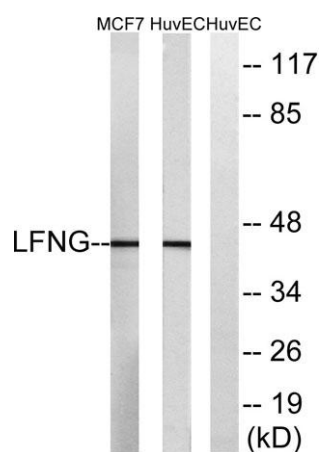
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| Concentration | 1 mg/ml |
| Observed band | 42kD |
| Human Gene ID | 3955 |
| Human Swiss-Prot Number | Q8NES3 |
| Alternative Names | LFNG; Beta-1; 3-N-acetylglucosaminyltransferase lunatic fringe; O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase |

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



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



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.