

## Product datasheet for **AP52467PU-N**

### Lunatic Fringe (LFNG) (Center) Rabbit Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | FC, IHC, WB  |
| Recommended Dilution: | <b>ELISA:</b> 1/1000.<br><b>Western Blot:</b> 1/100-1/500.<br><b>Flow Cytometry:</b> 1/10-1/50.<br><b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/100. |
| Reactivity:           | Human  |
| Host:                 | Rabbit   |
| Isotype:              | Ig   |
| Clonality:            | Polyclonal   |
| Immunogen:            | KLH conjugated synthetic peptide between 93~122 amino acids from the Central region of human LFNG  |
| Specificity:          | This antibody recognizes Human LFNG (Center).  |
| Formulation:          | PBS containing 0.09% (W/V) Sodium Azide as preservative<br>State: Aff - Purified<br>State: Liquid purified Ig fraction   |
| Concentration:        | lot specific   |
| Purification:         | Protein A column, followed by peptide affinity purification  |
| Conjugation:          | Unconjugated   |
| Storage:              | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.   |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | Homo sapiens LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase (LFNG), transcript variant 1   |
| Database Link:        | <a href="#">Entrez Gene 3955 Human Q8NES3</a>  |



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**Background:**

LFNG belongs to 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 protein 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).

**Synonyms:**

LFNG, EC=2.4.1.222

**Note:**

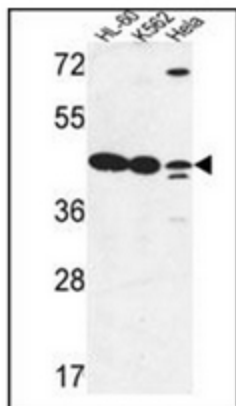
**Molecular Weight:** 41773 Da

**Protein Families:**

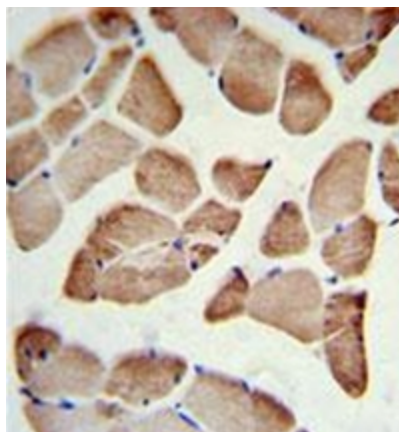
Transmembrane

**Protein Pathways:**

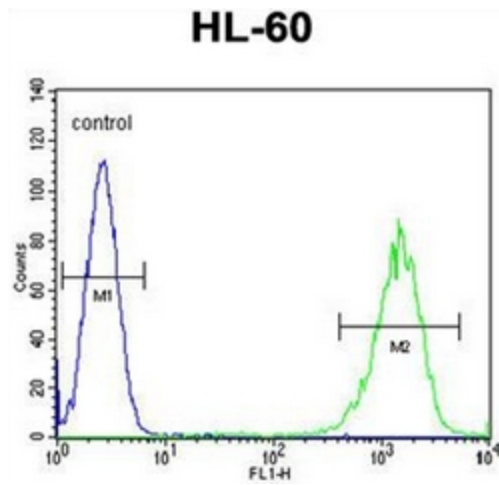
Notch signaling pathway

**Product images:**

Western blot analysis of LFNG Antibody (Center) in HL-60, K562, HeLa cell line lysates (35ug/lane). This demonstrates the LFNG antibody detected the LFNG protein (arrow).



Immunohistochemistry analysis in formalin fixed and paraffin embedded skeletal muscle reacted with LFNG Antibody (Center) followed by peroxidase conjugation of the secondary antibody and DAB staining.



Flow cytometric analysis of HL-60 cells using LFNG Antibody (Center) (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.