Datasheet for ABIN953163

anti-LFNG antibody (Middle Region)

3 Images

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Overview

Quantity:	0.4 mL
Target:	LFNG
Binding Specificity:	AA 93-122, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LFNG antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide between 93~122 amino acids from the Central region of human LFNG
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human LFNG (Center).
Purification:	Protein A column, followed by peptide affinity purification

Target Details

Target:	LFNG
Alternative Name:	LFNG (LFNG Products)
Background:	LFNG belongs to evolutionarily conserved glycosyltransferases that act in the Notch signaling

Target Details

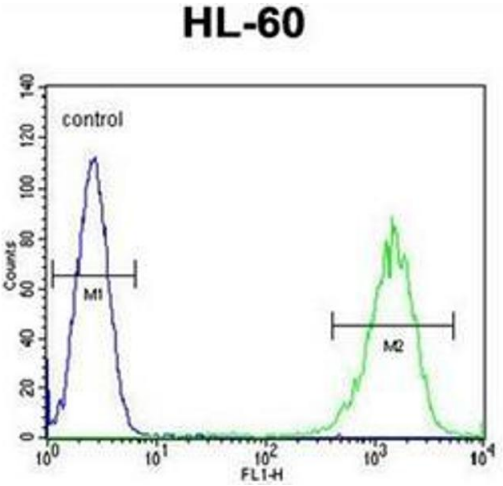
	pathway to define boundaries during embryonic development. While their genomic structure is distinct from other glycosyltransferases, fringe proteins have a fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity that leads to elongation of O-linked fucose residues on Notch, which alters Notch 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: 3-N-acetylglucosaminyltransferase lunatic fringe, Beta-1, EC=2.4.1.222, LFNG, O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
Molecular Weight:	41773 Da
Gene ID:	3955
NCBI Accession:	NP_001035257
Pathways:	Notch Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

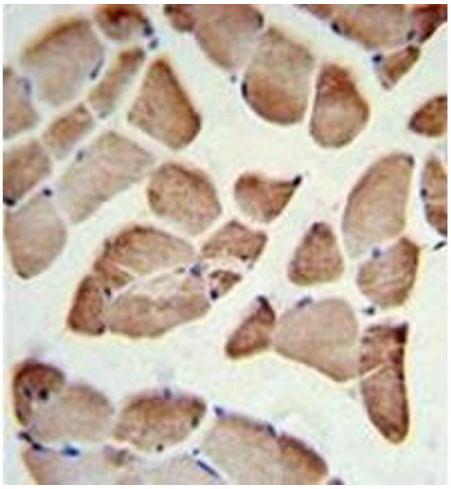
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



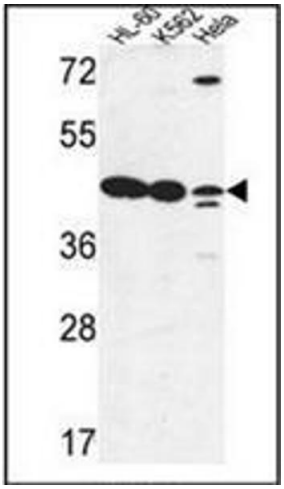
Flow Cytometry

Image 1. Flow cytometric analysis of HL-60 cells using LFNG Antibody (Center) Cat.-No AP52467PU-N (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. 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.



Western Blotting

Image 3. 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).