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LPHN3 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17661A

Specification

LPHN3 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9HAR2
Other Accession	Q9Z173, Q80TS3, O97827, NP_056051.2
Reactivity	**Human, Mouse**
Predicted	**Bovine, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**161812**
Antigen Region	**371-397**

LPHN3 Antibody (N-term) - Additional Information

Gene ID 23284

Other Names
Latrophilin-3, Calcium-independent alpha-latrotoxin receptor 3, CIRL-3, Lectomedin-3, LPHN3, KIAA0768, LEC3

Target/Specificity
This LPHN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 371-397 amino acids from the N-terminal region of human LPHN3.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
LPHN3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LPHN3 Antibody (N-term) - Protein Information

Name ADGRL3 {ECO:0000303|PubMed:35418682, ECO:0000312|HGNC:HGNC:20974}

Function Orphan adhesion G-protein coupled receptor (aGPCR), which mediates synapse specificity (PubMed:35418682). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide- binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:35418682). ADGRL3 is coupled with different classes of G alpha proteins, such as G(12)/G(13), G(s), G(i) or G(q), depending on the context (PubMed:35418682). Coupling to G(12)/G(13) G proteins, which mediates the activation Rho small GTPases is the most efficient (PubMed:35418682). Following G-protein coupled receptor activation, associates with cell adhesion molecules that are expressed at the surface of adjacent cells to direct synapse specificity (PubMed:26235030). Specifically mediates the establishment of Schaffer- collateral synapses formed by CA3-region axons on CA1-region pyramidal neurons in the hippocampus (By similarity). Localizes to postsynaptic spines in excitatory synapses in the S.oriens and S.radiatum and interacts with presynaptic cell adhesion molecules FLRT3 and TENM2, promoting synapse formation (By similarity). Plays a role in the development of glutamatergic synapses in the cortex (By similarity). Important in determining the connectivity rates between the principal neurons in the cortex (By similarity).

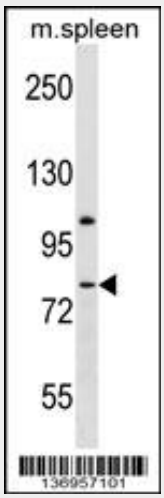
Cellular Location
Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q80TS3}; Multi-pass membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q80TS3}. Cell junction {ECO:0000250|UniProtKB:Q80TS3}

LPHN3 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LPHN3 Antibody (N-term) - Images



LPHN3 Antibody (N-term) (Cat. #AP17661a) western blot analysis in mouse spleen tissue lysates (35ug/lane).This demonstrates the LPHN3 antibody detected the LPHN3 protein (arrow).

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LPHN3 Antibody (N-term) - Background

This gene encodes a member of the latrophilin subfamily of G-protein coupled receptors (GPCR). Latrophilins may function in both cell adhesion and signal transduction. In experiments with non-human species, endogenous proteolytic cleavage within a cysteine-rich GPS (G-protein-coupled-receptor proteolysis site) domain resulted in two subunits (a large extracellular N-terminal cell adhesion subunit and a subunit with substantial similarity to the secretin/calcitonin family of GPCRs) being non-covalently bound at the cell membrane.

LPHN3 Antibody (N-term) - References

Arcos-Burgos, M., et al. Mol. Psychiatry 15(11):1053-1066(2010)
Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
Kasperaviciute, D., et al. Brain 133 (PT 7), 2136-2147 (2010) :
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Zemunik, T., et al. Croat. Med. J. 50(1):23-33(2009)