

LPHN3 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57054**Specification****LPHN3 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9HAR2
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	160 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LPHN3
Epitope Specificity	1171-1270/1447
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane.
SIMILARITY	Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Contains 1 GPS domain. Contains 1 olfactomedin-like domain. Contains 1 SUEL-type lectin domain.
Post-translational modifications	Proteolytically cleaved into 2 subunits, an extracellular subunit and a seven-transmembrane subunit.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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. [provided by RefSeq, Jul 2008]

LPHN3 Polyclonal Antibody - Additional Information**Gene ID** 23284**Other Names**

Adhesion G protein-coupled receptor L3 {ECO:0000312|HGNC:HGNC:20974}, Calcium-independent alpha-latrotoxin receptor 3, Lectomedin-3, ADGRL3 (<a

href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=20974"
target="_blank">HGNC:20974)

Dilution

IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

LPHN3 Polyclonal Antibody - 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 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LPHN3 Polyclonal Antibody - Images