

## **Anti-ADGRL3 / LPHN3 Antibody (C-Terminus)**

Rabbit Anti Human Polyclonal Antibody Catalog # ALS17503

## **Specification**

## Anti-ADGRL3 / LPHN3 Antibody (C-Terminus) - Product Information

Application IHC-P Primary Accession Q9HAR2

Predicted Human, Mouse, Rat, Hamster, Monkey,

Chicken, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 161812
Dilution IHC-P~~N/A

## Anti-ADGRL3 / LPHN3 Antibody (C-Terminus) - Additional Information

**Gene ID 23284** 

Alias Symbol ADGRL3

**Other Names** 

ADGRL3, CIRL3, CIRL-3, Lectomedin 3, Lectomedin-3, Lph3, KIAA0768, Latrophilin 3, Latrophilin homolog 3 (cow), LPHN3, Cl3 latrotoxin receptor, Latrophilin-3, LEC3

#### **Target/Specificity**

Human LPHN3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage Immunoaffinity purified

### **Precautions**

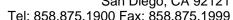
Anti-ADGRL3 / LPHN3 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

# Anti-ADGRL3 / LPHN3 Antibody (C-Terminus) - 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:<a href="http://www.uniprot.org/citations/35418682" target="\_blank">35418682</a>). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:<a href="http://www.uniprot.org/citations/35418682" target="\_blank">35418682</a>). ADGRL3 is coupled with different classes of G alpha proteins, such as G(12)/G(13), G(s), G(s), G(s), G(s), depending on the context (PubMed:<a href="http://www.uniprot.org/citations/35418682" target="\_blank">35418682</a>). Coupling to G(12)/G(13) G proteins, which mediates the





activation Rho small GTPases is the most efficient (PubMed:<a

href="http://www.uniprot.org/citations/35418682" target=" blank">35418682</a>). 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: <a href="http://www.uniprot.org/citations/26235030" target="\_blank">26235030</a>). 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}

## Anti-ADGRL3 / LPHN3 Antibody (C-Terminus) - 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

Anti-ADGRL3 / LPHN3 Antibody (C-Terminus) - Images