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Anti-ADGRL3 / LPHN3 Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17503

Product Information

Application	IHC-P
Primary Accession	Q9HAR2
Predicted	Human, Mouse, Rat, Hamster, Monkey, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	161812
Concentration (mg/ml)	1 mg/ml

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.

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}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.