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Anti-LPHN2 Antibody

Catalog # AP53822

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O95490
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	163349

Additional Information

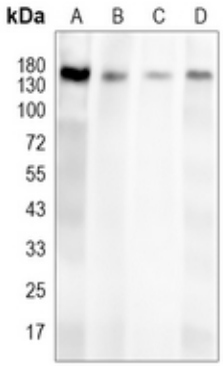
Gene ID	23266
Other Names	KIAA0786; LEC1; LPHH1; Latrophilin-2; Calcium-independent alpha-latrotoxin receptor 2; CIRL-2; Latrophilin homolog 1; Lectomedin-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human LPHN2. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/200 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

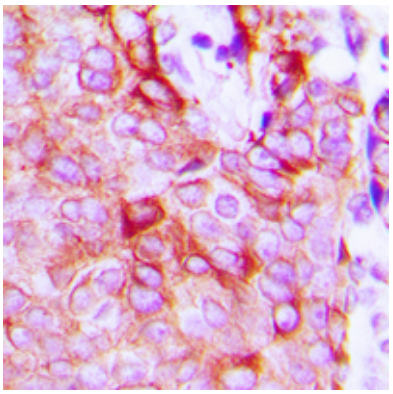
Name	ADGRL2 (HGNC:18582)
Function	Orphan adhesion G protein-coupled receptor (aGPCR), which mediates synapse specificity (By similarity). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide- binding proteins (G proteins) and modulates the activity of downstream effectors (By similarity). Following G protein-coupled receptor activation, associates with cell adhesion molecules that are expressed at the surface of adjacent cells to direct synapse specificity. Specifically mediates the establishment of perforant-path synapses on CA1-region pyramidal neurons in the hippocampus. Localizes to postsynaptic spines in excitatory synapses in the S.lacunosum- moleculare and interacts with presynaptic cell adhesion molecules, such as teneurins, promoting synapse formation (By similarity).
Cellular Location	Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q8JZZ7}; Multi-pass membrane protein

Tissue Location	Expressed very widely in all normal tissues tested. Expression is variable in tumor cell lines, apparently elevated in some lines and absent or markedly reduced in others

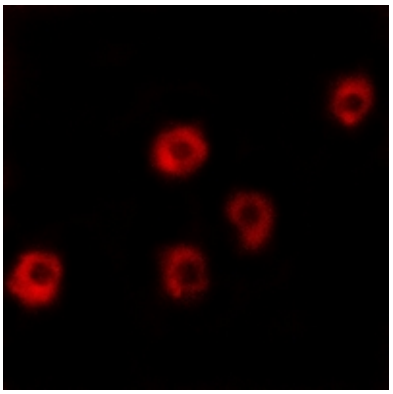
Images



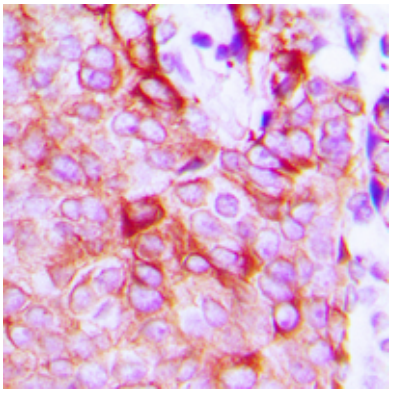
Western blot analysis of LPHN2 expression in HEK293T (A), HepG2 (B), HT1080 (C), SW480 (D) whole cell lysates. (Predicted band size: 163 kD; Observed band size: 163 kD)



Immunohistochemical analysis of LPHN2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of LPHN2 staining in COS7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.



Immunohistochemical analysis of LPHN2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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