

Datasheet for ABIN7581821 anti-LPHN3 antibody (AA 572-586)



Overview Quantity: 50 µL LPHN3 Target: Binding Specificity: AA 572-586 Reactivity: Mouse Rabbit Host: Clonality: Polyclonal Conjugate: This LPHN3 antibody is un-conjugated Application: Western Blotting (WB), Immunohistochemistry (IHC) **Product Details** Purpose: A Rabbit Polyclonal Antibody to Latrophilin-3 Immunodon. (C) DEINAWEKTROCOVAK corresponding to amine acid residues E72 E86 of mouse Latraphilin

Immunogen:	(C)REIMWEKTRQGQVAK, corresponding to amino acid residues 572 - 586 of mouse Latrophilin- 3
Sequence:	(C)REIMWFKTRQ GQVAK
Isotype:	lgG
Predicted Reactivity:	Rat - identical,Human- 14,15 identical
Characteristics:	Anti-Latrophilin-3 (extracellular) Antibody (ABIN7581821) is a highly specific antibody directed against an extracellular epitope of the mouse protein. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize Latrophilin-3 from mouse, rat and human samples.

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Product Details

Purification:

Affinity purified on immobilized antigen.

Target Details

Target:	LPHN3
Alternative Name:	ADGRL3 (LPHN3 Products)
Background:	Adhesion G Protein-Coupled Receptor L3, ADGRL3, Calcium-Independent Alpha-Latrotoxin
	Receptor 3, LPHN3, Lectomedin-3,Latrophilin-3 (LPHN3), also known as ADGRL3, is a member
	of the adhesion G-protein-coupled receptor (aGPCR) family. This family is characterized by the
	presence of a GPCR autoproteolysis-inducing (GAIN) domain that facilitates receptor cleavage
	and activation, along with seven transmembrane domains1,3. LPHN3 is primarily localized to
	the cell membrane and is prominently expressed in neurons, with high levels observed in brain
	regions such as the hippocampus and prefrontal cortex1,5. LPHN3 plays critical roles in
	neuronal development and synapse formation. It mediates its effects through dual
	mechanisms: coupling with intracellular G-proteins, particularly Gas and Ga12/13, and
	recruiting phase-separated postsynaptic protein scaffolds. Activation of LPHN3 is triggered by
	interactions with its ligands, such as teneurins and FLRTs, which enhance synaptic clustering
	by promoting scaffold protein condensates. Alternative splicing of Lphn3, studied in mouse
	models, modulates these pathways, influencing synaptic connectivity and neuronal activity3,4
	Biologically, LPHN3 is involved in attention regulation and motor control, with its dysregulation
	linked to attention deficit hyperactivity disorder (ADHD). Genetic variants in LPHN3 are
	associated with altered dopaminergic signaling and increased susceptibility to ADHD, as
	demonstrated in human studies1,2. Furthermore, LPHN3 dysfunction has been implicated in
	substance use disorders and learning deficits, underscoring its importance in neuropsychiatric
	and cognitive processes2,5.
Gene ID:	319387
JniProt:	Q80TS3
Application Details	

Application Notes:	Antigen preadsorption control: 1 μ g peptide per 1 μ g antibody	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
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Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	 Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).