Human Latrophilin 3/LPHN3 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: BAF5916

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Latrophilin 3/LPHN3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Latrophilin 3/LPHN3 Phe20-Asn813 Accession # NP_056051
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Latrophilin 3/LPHN3

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

LPHN3 (Latrophilin 3; also CIRL3, CL3 and LEC3) is a predicted 162 kDa member of the LN-TM7 subfamily, GPCR 2 family of molecules. It appears to have a restricted expression pattern, being limited to the brain and adrenal gland. Although it is related to the black widow toxin receptor CIRL1, it does not serve as a toxin receptor. Mature human LPHN3 is a 7-TM glycoprotein that is 1428 amino acids (aa) in length. Posttranslational processing cleaves the molecule into a 120 kDa ECD (aa 20-841) and a noncovalently-associated 85 kDa 7-TM C-terminus (aa 842-1447). The ECD is modular, and contains a SUEL-like lectin domain (aa 35-124), an Olf region (aa 134-393) and GPS domain (aa 802-853). There are multiple splice events which, in the ECD, include a two aa substitution for aa 127-131, a 13 aa insertion after Lys623, and a 39 aa substitution for aa 668-1447. Over aa 20-813, human LPHN3 shares 98% aa identity with mouse LPHN3.

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