Human/Mouse/Rat Latrophilin 3/LPHN3 Antibody

Monoclonal Mouse IgG_1 Clone # 801518

Catalog Number: MAB5916

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Latrophilin 3/LPHN3 in direct ELISAs and human, mouse, and rat Latrophilin 3/LPHN3 in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 801518
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Latrophilin 3/LPHN3 Met1-Arg813 Accession # Q9HAR2
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

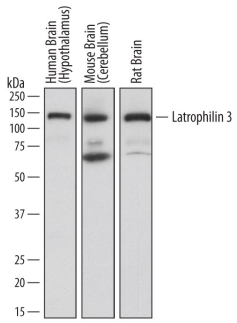
APPLICATIONS

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	2 µg/mL	See Below
Simple Western	20 µg/mL	See Below

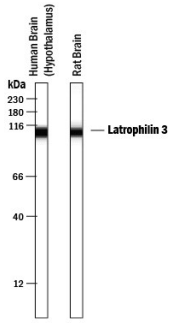
DATA

Western Blot



Detection of Human, Mouse, and Rat Latrophilin 3/LPHN3 by Western Blot. Western blot shows lysates of human brain (hypothalamus) tissue, mouse brain (cerebellum) tissue, and rat brain tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Latrophilin 3/LPHN3 Monoclonal Antibody (Catalog # MAB5916) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Latrophilin 3/LPHN3 at approximately 140 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human and Rat Latrophilin 3/LPHN3 by Simple Western™. Simple Western lane view shows lysates of human brain (hypothalamus) tissue and rat brain tissue, loaded at 0.5 mg/mL. A specific band was detected for Latrophilin 3/LPHN3 at approximately 109 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human/Mouse/Rat Latrophilin 3/LPHN3 Monoclonal Antibody (Catalog # MAB5916). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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 (presumably) 220 kDa member of the LN-TM7 subfamily, GPCR 2 family of molecules. It appears to have a restricted expression pattern, being limited to 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 Latrophilin 3 is a 7-TM glycoprotein that is 1428 amino acids (aa) in length. Post-translational 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 20-832, human Latrophilin 3 shares 98% aa identity with mouse Latrophilin 3.

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