Human/Mouse/Rat Latrophilin 3/LPHN3 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 801518

Catalog Number: FAB5916V

100 µg

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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