



Biotinylated Anti-human Latrophilin 3/LPHN3 Antibody

ORDERING INFORMATION

Catalog Number: BAF5916

Lot Number: CCOZ01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human LPHN3

Immunogen: CHO cell-derived rhLPHN3 (aa 20 - 813)

Ig Type: sheep IgG

Application: Western blot

Background

LPHN3 (Latrophilin 3; also C1RL3, 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 C1RL1, 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.

Preparation

Produced in sheep immunized with purified, CHO cell-derived, recombinant human Latrophilin 3 (rhLPHN3; aa 20 - 813; Accession # NP_056051). Human LPHN3 specific IgG was purified by human LPHN3 affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human LPHN3 Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human LPHN3. The detection limit for rhLPHN3 is approximately 25 ng/lane under non-reducing and reducing conditions.

Optimal dilutions should be determined by each laboratory for each application.

フナコシ株式会社

試薬に関して: Tel. 03-5684-1620 / Fax 03-5684-1775
e-mail: reagent@funakoshi.co.jp

2010/02/26

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

R&D Systems, Inc.
1-800-343-7475

2/23/10