Latrophilin-3 (H-77): sc-99182



The Power to Question

BACKGROUND

The Latrophilin family of G protein-coupled receptors consists of three members, Latrophilin-1, -2 and -3, each of which displays distinct tissue distribution and function. Latrophilin-1, the most characterized member of this family, acts as a receptor for α -latrotoxin, a component of venom from the black widow spider. Binding of α -latrotoxin to Latrophilin-1 triggers synaptic vesicle exocytosis via both Ca²+-dependent and -independent mechanisms, resulting in vesicle depletion. Latrophilin-1 is abundant in brain and present in endocrine cells. Latrophilin-3 is also brain-specific, whereas Latrophilin-2 expression is ubiquitous.

REFERENCES

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- Van Renterghem, C. et al. 2000. α-latrotoxin forms calcium-permeable membrane pores via interactions with Latrophilin or neurexin. Eur. J. Neurosci. 12: 3953-3962.
- Sudhof, T.C. et al. 2001. α-latrotoxin and its receptors: neurexins and CIRL/Latrophilins. Annu. Rev. Neurosci. 24933-24962.
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CHROMOSOMAL LOCATION

Genetic locus: LPHN3 (human) mapping to 4q13.1; Lphn3 (mouse) mapping to 5 D.

SOURCE

Latrophilin-3 (H-77) is a rabbit polyclonal antibody raised against amino acids 547-623 mapping within an internal region of Latrophilin-3 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

Latrophilin-3 (H-77) is recommended for detection of all Latrophilin-3 isoforms of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Latrophilin-3 (H-77) is also recommended for detection of all Latrophilin-3 isoforms in additional species, including equine, canine, bovine and porcine.

Molecular Weight of Latrophilin-3: 162 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Latrophilin-3 (B-6): sc-393576**, our highly recommended monoclonal alternative to Latrophilin-3 (H-77).

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