

Synaptogyrin-2 (H-60): sc-68935

BACKGROUND

The synaptogyrin family of proteins are integral membrane proteins containing four transmembrane regions. Synaptogyrins are tyrosine-phosphorylated proteins with two neuronal (Synaptogyrin-1 and -3) and one ubiquitous (Synaptogyrin-2) isoform. Synaptophysin and synaptogyrin represent the major constituents of synaptic vesicles. Synaptogyrin-1 is associated with presynaptic vesicles in neuronal cells. Synaptogyrin-2, also known as cellugyrin, has a tyrosine phosphorylated C-terminal cytoplasmic tail and is involved in the regulation of membrane traffic in non-neuronal cells. Synaptogyrin-3 is expressed mainly in brain and placenta.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SYNGR2 (human) mapping to 17q25.3; Syng2 (mouse) mapping to 11 E2.

SOURCE

Synaptogyrin-2 (H-60) is a rabbit polyclonal antibody raised against amino acids 14-73 mapping near the N-terminus of Synaptogyrin-2 of human origin.

PRODUCT

Each vial contains 200 µg IgG 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.

APPLICATIONS

Synaptogyrin-2 (H-60) is recommended for detection of Synaptogyrin-2 of human, mouse and, to a lesser extent, rat 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).

Synaptogyrin-2 (H-60) is also recommended for detection of Synaptogyrin-2 in additional species, including bovine.

Suitable for use as control antibody for Synaptogyrin-2 siRNA (h): sc-45553, Synaptogyrin-2 siRNA (m): sc-45554, Synaptogyrin-2 shRNA Plasmid (h): sc-45553-SH, Synaptogyrin-2 shRNA Plasmid (m): sc-45554-SH, Synaptogyrin-2 shRNA (h) Lentiviral Particles: sc-45553-V and Synaptogyrin-2 shRNA (m) Lentiviral Particles: sc-45554-V.

Molecular Weight of Synaptogyrin-2: 25 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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.

RESEARCH USE

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

PROTOCOLS

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


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Try **Synaptogyrin-2 (5C3): sc-517053**, our highly recommended monoclonal alternative to Synaptogyrin-2 (H-60).