

endobrevin (C-16): sc-19368

BACKGROUND

Syntaxins were originally thought to be docking proteins, but have more recently been categorized as anchoring proteins that anchor themselves to the cytoplasmic surfaces of cellular membranes. Syntaxins bind to various proteins involved in exocytosis, including VAMPs (vesicle-associated membrane proteins), NSF (N-ethylmaleimide-sensitive factor), SNAPs (soluble NSF attachment proteins), SNAP 25 (synaptosomal-associated protein of 25) and Synaptotagmin. VAMPs, also designated synaptobrevins, including VAMP-8 (also designated endobrevin) are vesicular proteins. Endobrevin is similar in sequence to the synaptobrevins and is abundantly expressed in kidney, moderately expressed in heart and spleen, and slightly expressed in brain, thymus and liver. Endobrevin interacts specifically with the SNAPs, most likely through an endobrevin-containing SNARE complex.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: VAMP8 (human) mapping to 2p11.2; Vamp8 (mouse) mapping to 6 C1.

SOURCE

endobrevin (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of endobrevin of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-19368 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

endobrevin (C-16) is recommended for detection of endobrevin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

endobrevin (C-16) is also recommended for detection of endobrevin in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for endobrevin siRNA (h): sc-41300, endobrevin siRNA (m): sc-41301, endobrevin shRNA Plasmid (h): sc-41300-SH, endobrevin shRNA Plasmid (m): sc-41301-SH, endobrevin shRNA (h) Lentiviral Particles: sc-41300-V and endobrevin shRNA (m) Lentiviral Particles: sc-41301-V.

Molecular Weight of endobrevin: 11 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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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Satisfaction
Guaranteed

Try **endobrevin (G-12): sc-166820**, our highly recommended monoclonal alternative to endobrevin (C-16).