Amisyn (K-18): sc-67609



The Power to Question

BACKGROUND

Amisyn, also known as Syntaxin-binding protein 6 (STXBP6), is a mostly cytosolic protein, related to Tomosyn, which plays an important role in SNARE complex assembly. Amisyn contains a v-SNARE coiled-coil homology domain that binds to Syntaxin 1A and weakly to Syntaxin 4. Three isoforms exist for Amisyn. Isoform 1 is the full length protein; isoform 2 has a different amino acid sequence between residues 204-210; and isoform 3 is missing amino acids 1-102 and contains a different sequence for amino acids 103-150. Amisyn lacks a transmembrane domain and therefore is unable to assemble into a functional, membrane-anchored SNARE complex. This suggests that Amisyn may instead be acting to maintain SNARE conformation and facilitate the binding of VAMP-2. Amisyn can inhibit exocytosis independent of Syntaxin binding.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STXBP6 (human) mapping to 14q12; Stxbp6 (mouse) mapping to 12 B3.

SOURCE

Amisyn (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Amisyn 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.

Blocking peptide available for competition studies, sc-67609 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Amisyn (K-18) is recommended for detection of Amisyn of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Amisyn (K-18) is also recommended for detection of Amisyn in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Amisyn siRNA (h): sc-61968, Amisyn siRNA (m): sc-61969, Amisyn shRNA Plasmid (h): sc-61968-SH, Amisyn shRNA Plasmid (m): sc-61969-SH, Amisyn shRNA (h) Lentiviral Particles: sc-61968-V and Amisyn shRNA (m) Lentiviral Particles: sc-61969-V.

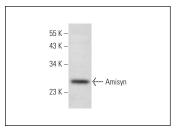
Molecular Weight of Amisyn: 24 kDa.

Positive Controls: Ramos cell lysate: sc-2216.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



Amisyn (K-18): sc-67609. Western blot analysis of Amisyn expression in Ramos whole cell lysate.

STORAGE

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

PROTOCOLS

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