Amisyn (F-9): sc-271959

**BACKGROUND**

Amisyn, also known as Syntaxin-binding protein 6 (STXB6), 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**


**CHROMOSOMAL LOCATION**

Genetic locus: STXB6 (human) mapping to 14q12; Stxbp6 (mouse) mapping to 12 B3.

**SOURCE**

Amisyn (F-9) is a mouse monoclonal antibody raised against amino acids 1-210 representing full length Amisyn of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Amisyn (F-9) is available conjugated to agarose (sc-271959 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271959 HRP), 200 µg/ml, for WB, IHOP and ELISA; to either phycoerythrin (sc-271959 PE), fluorescein (sc-271959 FITC), Alexa Fluor® 488 (sc-271959 AF488), Alexa Fluor® 546 (sc-271959 AF546), Alexa Fluor® 594 (sc-271959 AF594) or Alexa Fluor® 647 (sc-271959 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-271959 AF680) or Alexa Fluor® 790 (sc-271959 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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Amisyn (F-9) is recommended for detection of Amisyn of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).


Positive Controls: sc-2216 or Saos-2 cell lysate: sc-2235.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGk BPHRP: sc-516102 or m-IgGk BPHRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-20140 or ProteinA/G PLUS-Agarose (Cruz Marker): sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**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.

**PROTOCOLS**

See our website at www.scbt.com for detailed protocols and support products.