# Amisyn (FL-210): sc-68400



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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- Gerst, J.E. 2003. SNARE regulators: matchmakers and matchbreakers. Biochim. Biophys. Acta 1641: 99-110.
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# CHROMOSOMAL LOCATION

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

#### SOURCE

Amisyn (FL-210) is a rabbit polyclonal antibody raised against amino acids 1-210 representing full length Amisyn of human origin.

### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

Amisyn (FL-210) 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  $\mu$ g per 100-500  $\mu$ 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 (FL-210) 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.

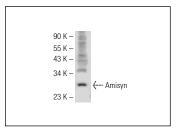
Molecular Weight of Amisyn: 24 kDa.

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 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.

# DATA



Amisyn (FL-210): sc-68400. Western blot analysis of Amisyn expression in Ramos whole cell Ivsate.

# **RESEARCH USE**

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

MONOS Satisfation Guaranteed

Try **Amisyn (F-9): sc-271959**, our highly recommended monoclonal alternative to Amisyn (FL-210).

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