**BACKGROUND**

Syntaxis were originally thought to be docking proteins, but have now been categorized as anchoring proteins that anchor themselves to the cytoplasmic surfaces of cellular membranes. Syntaxis have been shown to bind to various proteins involved in exocytosis, including VAMPS (vesicle-associated membrane proteins), NSF (N-ethylmaleimide-sensitive factor), SNAP 25, SNAPs (soluble NSF attachment proteins) and Synaptotagmin. VAMPS, also designated synaptobrevins, including VAMP-1 and VAMP-2, and Synaptotagmin, a protein that may function as an inhibitor of exocytosis, are vesicular proteins. SNAPs, including α- and γ-SNAP, are cytoplasmic proteins that bind to a membrane receptor complex composed of VAMP, SNAP 25 and Syntaxis. SNAPs mediate the membrane binding of NSF, which is essential for membrane fusion reactions. An additional protein designated synaptophysin may regulate exocytosis by competing with SNAP 25 and syntaxis for VAMP binding.

**CHROMOSOMAL LOCATION**

Genetic locus: SNAP25 (human) mapping to 20p12.2; SNAP25 (mouse) mapping to 2 F3.

**SOURCE**

SNAP 25 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of SNAP 25 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.

Blocking peptide available for competition studies, sc-7538 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-7538 AC, 500 µg/0.25 ml agarose in 1 ml.

**APPLICATIONS**

SNAP 25 (C-18) is recommended for detection of SNAP 25 (including SNAP 25A and SNAP 25B splice variants) of mouse, rat and human 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).

SNAP 25 (C-18) is also recommended for detection of SNAP 25 (including SNAP 25A and SNAP 25B splice variants) in additional species, including equine, canine, bovine, porcine and avian.


Molecular Weight of SNAP 25: 25 kDa.

**STORAGE**

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

**RESEARCH USE**

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

**DATA**

SNAP 25 (C-18): sc-7538. Western blot analysis of SNAP 25 expression in non-transfected: sc-110760 (A) and human SNAP 25 transfected: sc-111113 (B) whole cell lysates.

SNAP 25 (C-18) sc-7538. Immunofluorescence staining of methanol-fixed PC-12 cells showing membrane localization.

**SELECT PRODUCT CITATIONS**


**try SNAP 25 (SP12): sc-20038 or SNAP 25 (H-1): sc-376713, our highly recommended monoclonal alternatives to SNAP 25 (C-18).**