Unc18-2 (C-20): sc-14563



The Power to Question

BACKGROUND

Unc18-1, 2, and 3 (Syntaxin binding proteins 1-3, STXBP1-3, Unc18-a-c, Munc18-1-3) are chaperone molecules that block syntaxin interactions with cognate SNARE (soluble NSF attachment protein (SNAP) receptors) proteins and regulate exocytosis. Unc18-1-3 mRNA is present in RBL-2H3 mast cells, mouse bone marrow derived mast cells (BMMC), and platelets. Unc18-1 Ser 313 is a protein kinase C phosphorylation site and Thr-574 is a cyclindependent kinase 5 phosphorylation site that regulates Unc18-1/Syntaxin 1A interactions. Unc18-1 is phosphorylated on Ser 313 in response to phorbol ester treatment in adrenal chromaffin cells. Unc18-2 colocalizes with syntaxin 3 at the apical plasma membrane of intestinal, proximal tubule and collecting duct epithelial cells.

REFERENCES

- 1. Schraw, T.D., et al. 2003. A role for Sec1/Munc18 proteins in platelet exocytosis. Biochem. J. 374: 207-217.
- 2. Barclay, J.W., et al. 2003. Phosphorylation of Munc18 by protein kinase C regulates the kinetics of exocytosis. J. Biol. Chem. 278: 10538-10545.
- Gaisano, H.Y., et al. 2004. Alcoholic chronic pancreatitis involves displacement of Munc18c from the pancreatic acinar basal membrane surface. Pancreas 28: 395-400.

SOURCE

Unc18-2 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Unc18-2 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-14563 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Unc18-2 (C-20) is recommended for detection of Unc18-2 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).

Unc18-2 (C-20) is also recommended for detection of Unc18-2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Unc18-2 siRNA (h): sc-42310, Unc18-2 siRNA (m): sc-42311, Unc18-2 shRNA Plasmid (h): sc-42310-SH, Unc18-2 shRNA Plasmid (m): sc-42311-SH, Unc18-2 shRNA (h) Lentiviral Particles: sc-42310-V and Unc18-2 shRNA (m) Lentiviral Particles: sc-42311-V.

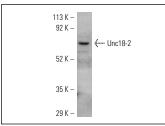
Molecular Weight of Unc18-2: 70 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

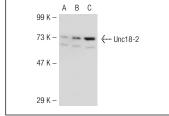
RECOMMENDED SECONDARY REAGENTS

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







Unc18-2 (C-20): sc-14563. Western blot analysis of Unc18-2 expression in Jurkat whole cell lysate.

Unc18-2 (C-2U): sc-14563. Western blot analysis of Unc18-2 expression in non-transfected 293T: sc-117752 (A), mouse Unc18-2 transfected 293T: sc-124469 (B) and Jurkat (C) whole cell lysates.

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



Try Unc18-2 (B-2): sc-376639 or Unc18-2 (A-6): sc-390503, our highly recommended monoclonal alternatives to Unc18-2 (C-20).

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