

# Unc18-3 (C-15): sc-14567

## 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 cyclin-dependent kinase 5 phosphorylation site that regulates Unc18-1/syntaxin1A 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

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## CHROMOSOMAL LOCATION

Genetic locus: STXBP3 (human) mapping to 1p13.3; Stxbp3a (mouse) mapping to 3 F3.

## SOURCE

Unc18-3 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Unc18-3 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-14567 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Unc18-3 (C-15) is recommended for detection of Unc18-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Unc18-3 (C-15) is also recommended for detection of Unc18-3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Unc18-3 siRNA (h): sc-42312, Unc18-3 siRNA (m): sc-42313, Unc18-3 shRNA Plasmid (h): sc-42312-SH, Unc18-3 shRNA Plasmid (m): sc-42313-SH, Unc18-3 shRNA (h) Lentiviral Particles: sc-42312-V and Unc18-3 shRNA (m) Lentiviral Particles: sc-42313-V.

## 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) 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



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Try **Unc18-3 (H-7): sc-373813**, our highly recommended monoclonal alternative to Unc18-3 (C-15).