

# Complexin-3 (H-44): sc-134649

## BACKGROUND

Members of the complexin protein family promote SNARE (soluble N-ethylmaleimide-sensitive factor attachment protein receptors) precomplex formation by binding to Syntaxin via an  $\alpha$ -helical domain. Complexins are important regulators of transmitter release at a late step in calcium-dependent neurotransmitter release or immediately after the calcium-triggering step of fast synchronous transmitter release. Neurons lacking complexins show reduced transmitter release efficiency due to decreased calcium sensitivity of the synaptic secretion process. Complexin-3, also known as CPXIII, CPX-III, Nbla11589 or CPLX3, is a 158 amino acid member of the complexin/synaphin family. Complexin-3 is involved in the regulation of synaptic vesicle exocytosis. Complexin-3 binds to the SNARE core complex containing SNAP 25, VAMP-2 and Syntaxin 1.

## CHROMOSOMAL LOCATION

Genetic locus: CPLX3 (human) mapping to 15q24.1; Cplx3 (mouse) mapping to 9 B.

## SOURCE

Complexin-3 (H-44) is a rabbit polyclonal antibody raised against amino acids 1-44 mapping at the N-terminus of Complexin-3 of human origin.

## PRODUCT

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

## STORAGE

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

## APPLICATIONS

Complexin-3 (H-44) is recommended for detection of Complexin-3 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).

Complexin-3 (H-44) is also recommended for detection of Complexin-3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Complexin-3 siRNA (h): sc-90105, Complexin-3 siRNA (m): sc-142490, Complexin-3 shRNA Plasmid (h): sc-90105-SH, Complexin-3 shRNA Plasmid (m): sc-142490-SH, Complexin-3 shRNA (h) Lentiviral Particles: sc-90105-V and Complexin-3 shRNA (m) Lentiviral Particles: sc-142490-V.

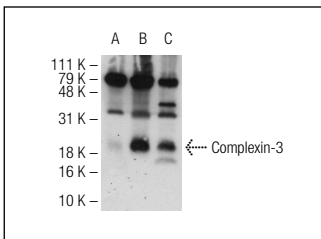
Molecular Weight of Complexin-3: 18 kDa.

Positive Controls: mouse brain extract: sc-2253, mouse prostate extract: sc-364249 or mouse spleen extract: sc-2391.

## 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



Complexin-3 (H-44): sc-134649. Western blot analysis of Complexin-3 expression in mouse prostate (A), mouse spleen (B) and mouse brain (C) tissue extracts.

## 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 **Complexin-3 (C-8): sc-365941** or **Complexin-3 (A-9): sc-365942**, our highly recommended monoclonal alternatives to Complexin-3 (H-44).