# Sec8 (N-15): sc-30291



The Power to Question

## **BACKGROUND**

Exocytosis is crucial in membrane trafficking and it mediates hormone and neurotransmitter secretion out of the cell, as well as the incorporation of membrane proteins and lipids to the plasma membrane. It is crucial for cell-cell communication, cell growth and cell polarity. The exocyst complex is a multi-protein complex that consists of Sec3, Sec5, Sec6, Sec8, Sec10, Sec15, Exo70 and Exo84, and is essential for targeting exocytic vesicles to specific docking sites on the plasma membrane. The exocyst complex inhibits tubulin polymerization *in vitro*, suggesting that the exocyst complex is important for modulating the microtubule dynamics that underlie exocytosis. Sec8, also known as EXOC4 (exocyst complex component 4), REC8 or SEC8L1, is one of eight protein subunits composing the mammalian exocyst complex. Human Sec8 maps to chromosome 7q33.

## **REFERENCES**

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- Ting, A.E., et al. 1995. rSec6 and rSec8, mammalian homologs of yeast proteins essential for secretion. Proc. Natl. Acad. Sci. USA 92: 9613-9617.
- Friedrich, G.A., et al. 1997. The secretory protein Sec8 is required for paraxial mesoderm formation in the mouse. Dev. Biol. 192: 364-374.
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## CHROMOSOMAL LOCATION

Genetic locus: EXOC4 (human) mapping to 7q33; Exoc4 (mouse) mapping to 6 A3.3.

## SOURCE

Sec8 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Sec8 of human origin.

## **STORAGE**

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

#### **PRODUCT**

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

Blocking peptide available for competition studies, sc-30291 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

Sec8 (N-15) is recommended for detection of Sec8 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).

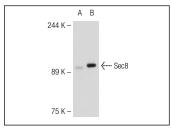
Sec8 (N-15) is also recommended for detection of Sec8 in additional species, including equine, canine, bovine and porcine.

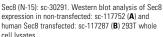
Suitable for use as control antibody for Sec8 siRNA (h): sc-60085, Sec8 siRNA (m): sc-60086, Sec8 shRNA Plasmid (h): sc-60085-SH, Sec8 shRNA Plasmid (m): sc-60086-SH, Sec8 shRNA (h) Lentiviral Particles: sc-60085-V and Sec8 shRNA (m) Lentiviral Particles: sc-60086-V.

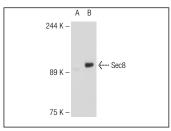
Molecular Weight of Sec8: 110 kDa.

Positive Controls: Sec8 (h): 293T Lysate: sc-117287, Sec8 (m): 293T Lysate: sc-123430 or AN3 CA cell lysate: sc-24662.

## **DATA**







Sec8 (N-15): sc-30291. Western blot analysis of Sec8 expression in non-transfected: sc-117752 (**A**) and mouse Sec8 transfected: sc-123430 (**B**) 293T whole

#### **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 Sec8 (B-11): sc-514215 or Sec8 (14): sc-136234, our highly recommended monoclonal alternatives to Sec8 (N-15).

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