

Sec10 (N-20): sc-30294

BACKGROUND

The mammalian exocyst complex (sec 6/8) targets exocytic vesicles to specific docking sites on the plasma membrane. Sec 10 is one of eight protein subunits (Sec3, Sec5, Sec6, Sec8, Sec10, Sec15, Exo70, and Exo84) composing the mammalian exocyst complex. Sec10, also designated 71 kDa component of rsec6/8 secretory complex in mouse and rat, is a 77 kDa protein that subcomplexes with Sec15. Human Sec10 maps to chromosome 14q22.3.

REFERENCES

- Guo, W., et al. 1997. Identification and characterization of homologues of the Exocyst component Sec10p. *FEBS Lett.* 2-3: 135-139.
- Roth, D., et al. 1998. Dominant negative alleles of SEC10 reveal distinct domains involved in secretion and morphogenesis in yeast. *Mol. Biol. Cell* 9: 1725-1739.
- Lipschutz, J.H., et al. 2000. Exocyst is involved in cystogenesis and tubulogenesis and acts by modulating synthesis and delivery of basolateral plasma membrane and secretory proteins. *Mol. Biol. Cell* 11: 4259-4275.
- Wang, H., et al. 2002. The multiprotein exocyst complex is essential for cell separation in *Schizosaccharomyces pombe*. *Mol. Biol. Cell* 13: 515-529.
- Lipschutz, J., et al. 2003. The exocyst affects protein synthesis by acting on the translocation machinery of the endoplasmic reticulum. *J. Biol. Chem.* 23: 20954-20960.
- Prigent, M., et al. 2003. ARF6 controls post-endocytic recycling through its downstream exocyst complex effector. *J. Cell Biol.* 163: 1111-1121.
- Hsu, S.C., et al. 2004. The exocyst complex in polarized exocytosis. *Int. Rev. Cytol.* 233: 243-265.
- LocusLink Report (LocusID: 10640). <http://www.ncbi.nlm.nih.gov/LocusLink/>
- SWISS-PROT/TrEMBL (O00471). World Wide Web URL: <http://www.expasy.ch/sprot/sprot-top.html>

CHROMOSOMAL LOCATION

Genetic locus: SEC10L1 (human) mapping to 14q22.3; Sec10I1 (mouse) mapping to 14 C1.

SOURCE

Sec10 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Sec10 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-30294 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Sec10 (N-20) is recommended for detection of Sec10 (also designated 71 kDa component of rsec6/8 secretory complex in mouse and rat) 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).

Sec10 (N-20) is also recommended for detection of Sec10 (also designated 71 kDa component of rsec6/8 secretory complex in mouse and rat) in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Sec10 siRNA (h): sc-106900, Sec10 siRNA (m): sc-153295, Sec10 shRNA Plasmid (h): sc-106900-SH, Sec10 shRNA Plasmid (m): sc-153295-SH, Sec10 shRNA (h) Lentiviral Particles: sc-106900-V and Sec10 shRNA (m) Lentiviral Particles: sc-153295-V.

Molecular Weight of Sec10: 77 kDa.

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.

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.


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Try **Sec10 (C-4): sc-514802**, our highly recommended monoclonal alternative to Sec10 (N-20).