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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Sec15B shRNA (h) Lentiviral Particles: sc-45352-V

## BACKGROUND

Exocytosis, crucial in membrane trafficking, 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* which implicates the exocyst in modulating microtubule dynamics underlying exocytosis. Sec15A (also known as Sec15L or Sec15p) and Sec15B (also designated Sec15L2) both belong to the SEC15 family of proteins. Sec15 can co-localize with Rab11 (a recycling endosome marker) and exhibits a GTP-dependent interaction with the Rab11 GTPase.

## REFERENCES

1. Zhang, X.M., et al. 2004. Sec15 is an effector for the Rab11 GTPase in mammalian cells. *J. Biol. Chem.* 279: 43027-43034.
2. Wang, S., et al. 2004. The mammalian exocyst, a complex required for exocytosis, inhibits tubulin polymerization. *J. Biol. Chem.* 279: 35958-35966.
3. Hsu, S.C., et al. 2004. The exocyst complex in polarized exocytosis. *Int. Rev. Cytol.* 233: 243-265.
4. SWISS-PROT/TrEMBL (Q8TAG9). World Wide Web URL: <http://www.expasy.ch/sprot/sprot-top.html>
5. <http://harvester.embl.de/harvester/Q8TA/Q8TAG9.htm>

## CHROMOSOMAL LOCATION

Genetic locus: SEC15L2 (human) mapping to 2p13.2.

## PRODUCT

Sec15B shRNA (h) Lentiviral Particles is a pool of concentrated, transduction-ready viral particles containing 3 target-specific constructs that encode 19-25 nt (plus hairpin) shRNA designed to knock down gene expression. Each vial contains 200  $\mu$ l frozen stock containing  $1.0 \times 10^6$  infectious units of virus (IFU) in Dulbecco's Modified Eagle's Medium with 25 mM HEPES pH 7.3. Suitable for 10-20 transductions. Also see Sec15B siRNA (h): sc-45352 and Sec15B shRNA Plasmid (h): sc-45352-SH as alternate gene silencing products.

## RESEARCH USE

The purchase of this product conveys to the buyer the nontransferable right to use the purchased amount of the product and all replicates and derivatives for research purposes conducted by the buyer in his laboratory only (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party, or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

Sec15B shRNA (h) Lentiviral Particles is recommended for the inhibition of Sec15B expression in human cells.

## SUPPORT REAGENTS

Control shRNA Lentiviral Particles: sc-108080. Available as 200  $\mu$ l frozen viral stock containing  $1.0 \times 10^6$  infectious units of virus (IFU); contains an shRNA construct encoding a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA.

## GENE EXPRESSION MONITORING

Sec15B (C-14): sc-34375 is recommended as a control antibody for monitoring of Sec15B gene expression knockdown by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) or immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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.

## RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor Sec15B gene expression knockdown using RT-PCR Primer: Sec15B (h)-PR: sc-45352-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

## BIOSAFETY

Lentiviral particles can be employed in standard Biosafety Level 2 tissue culture facilities (and should be treated with the same level of caution as with any other potentially infectious reagent). Lentiviral particles are replication-incompetent and are designed to self-inactivate after transduction and integration of shRNA constructs into genomic DNA of target cells.

## STORAGE

Store lentiviral particles at -80° C. Stable for at least one year from the date of shipment. Once thawed, particles can be stored at 4° C for up to one week. Avoid repeated freeze thaw cycles.