

# Sec5 (K-15): sc-30286

## BACKGROUND

The mammalian exocyst complex (sec 6/8) is a multiple protein complex essential for targeting exocytic vesicles to specific docking sites on the plasma membrane. Sec 5 is one of eight exocyst complex subunits: Sec3, Sec5, Sec6, Sec8, Sec10, Sec15, Exo70, and Exo84. Exocyst complex regulation depends upon Sec5 binding Ral in a GTP-dependent manner. Human Sec5 maps to chromosome 6p25.3.

## REFERENCES

1. Fukai, S., et al. 2003. Structural basis of the interaction between RalA and Sec5, a subunit of the Sec6/8 complex. *EMBO J.* 13: 3267-3278.
2. Mott, H.R., et al. 2003. Structure of the GTPase-binding domain of Sec5 and elucidation of its Ral binding site. *J. Biol. Chem.* 278: 17053-17059.
3. Murthy, M., et al. 2003. Mutations in the exocyst component Sec5 disrupt neuronal membrane traffic, but neurotransmitter release persists. *Neuron* 37: 433-447.
4. Moskalenko, S., et al. 2003. Ral GTPases regulate exocyst assembly through dual subunit interactions. *J. Biol. Chem.* 278: 51743-51748.
5. Wang, S., et al. 2004. The mammalian exocyst, a complex required for exocytosis, inhibits tubulin polymerization. *J. Biol. Chem.* 279: 35958-35966.
6. Murthy, M., et al. 2004. The exocyst component Sec5 is required for membrane traffic and polarity in the *Drosophila* ovary. *Development* 131: 377-388.
7. LocusLink Report (LocusID: 55770). <http://www.ncbi.nlm.nih.gov/LocusLink/>

## CHROMOSOMAL LOCATION

Genetic locus: EXOC2 (human) mapping to 6p25.3; Exoc2 (mouse) mapping to 13 A3.2.

## SOURCE

Sec5 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Sec5 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-30286 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.

## PROTOCOLS

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

## APPLICATIONS

Sec5 (K-15) is recommended for detection of Sec5 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).

Sec5 (K-15) is also recommended for detection of Sec5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Sec5 siRNA (h): sc-106891, Sec5 siRNA (m): sc-153316, Sec5 shRNA Plasmid (h): sc-106891-SH, Sec5 shRNA Plasmid (m): sc-153316-SH, Sec5 shRNA (h) Lentiviral Particles: sc-106891-V and Sec5 shRNA (m) Lentiviral Particles: sc-153316-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.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.


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Try **Sec5 (F-7): sc-393230** or **Sec5 (C-10): sc-393467**, our highly recommended monoclonal alternatives to Sec5 (K-15).