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


CHROMOSOMAL LOCATION

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

SOURCE

Sec8 (14) is a mouse monoclonal antibody raised against amino acids 31-201 of Sec8 of rat origin.

PRODUCT

Each vial contains 50 µg IgG2b in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-136234 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

APPLICATIONS

Sec8 (14) 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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: HeLa whole cell lysate: sc-2200, HeLa nuclear extract: sc-2120 or MDCK cell lysate: sc-2252.

DATA

SEC8 (14): sc-136234. Western blot analysis of Sec8 expression in HeLa whole cell lysate.

SELECT PRODUCT CITATIONS


RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.