SANTA CRUZ BIOTECHNOLOGY, INC.

ExoC3L2 (H-5): sc-393332

SANTA CRUZ BIOTECHNOLOGY

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. ExoC3L2 (exocyst complex component 3-like protein 2), also known as HBV X-transactivated gene 7 protein, is a 409 amino acid protein that is related to the Sec6 component of the exocyst complex.

REFERENCES

1. TerBush, D.R. and Novick, P. 1995. Sec6, Sec8, and Sec15 are components of a multisubunit complex which localizes to small bud tips in *Saccharomyces cerevisiae.* J. Cell Biol. 130: 299-312.
2. Grindstaff, K.K., et al. 1998. Sec6/8 complex is recruited to cell-cell contacts and specifies transport vesicle delivery to the basal-lateral membrane in epithelial cells. Cell 93: 731-740.
3. Hsu, S.C., et al. 1999. Targeting vesicles to specific sites on the plasma membrane: the role of the Sec6/8 complex. Trends Cell Biol. 9: 150-153.
4. Matern, H.T., et al. 2001. The Sec6/8 complex in mammalian cells: characterization of mammalian Sec3, subunit interactions, and expression of subunits in polarized cells. Proc. Natl. Acad. Sci. USA 98: 9648-9653.

CHROMOSOMAL LOCATION

Genetic locus: EXOC3L2 (human) mapping to 19q13.32.

SOURCE

ExoC3L2 (H-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 97-124 within an internal region of ExoC3L2 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ExoC3L2 (H-5) is available conjugated to agarose (sc-393332 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-393332 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393332 PE), fluorescein (sc-393332 FITC), Alexa Fluor® 488 (sc-393332 AF488), Alexa Fluor® 546 (sc-393332 AF546), Alexa Fluor® 594 (sc-393332 AF594) or Alexa Fluor® 647 (sc-393332 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393332 AF680) or Alexa Fluor® 790 (sc-393332 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393332 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

ExoC3L2 (H-5) is recommended for detection of ExoC3L2 of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for ExoC3L2 siRNA (h): sc-97124, ExoC3L2 shRNA Plasmid (h): sc-97124-SH and ExoC3L2 shRNA (h) Lentiviral Particles: sc-97124-V.

Molecular Weight (predicted) of ExoC3L2: 46 kDa.

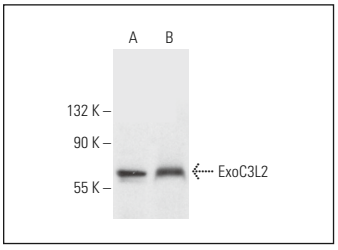
Molecular Weight (observed) of ExoC3L2: 65 kDa.

Positive Controls: PC-3 cell lysate: sc-2220 or human liver extract: sc-363766.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



ExoC3L2 (H-5): sc-393332. Western blot analysis of ExoC3L2 expression in PC-3 whole cell lysate (**A**) and human liver tissue extract (**B**).

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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