SANTA CRUZ BIOTECHNOLOGY, INC.

Exo84 (H-1): sc-515532

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. Exo84 (exocyst complex 84 kDa subunit), also known as Exocyst complex component 8, is a 725 amino acid protein that is one of eight protein subunits composing the mammalian exocyst complex. Both Exo84 and Sec5 are effector targets for active Ral GTPases, which are responsible for regulating exocyst complex activities.

CHROMOSOMAL LOCATION

Genetic locus: EXOC8 (human) mapping to 1q42.2; Exoc8 (mouse) mapping to 8 E2.

SOURCE

Exo84 (H-1) is a mouse monoclonal antibody raised against amino acids 564-725 mapping near the C-terminus of Exo84 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.

Exo84 (H-1) is available conjugated to agarose (sc-515532 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515532 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515532 PE), fluorescein (sc-515532 FITC), Alexa Fluor® 488 (sc-515532 AF488), Alexa Fluor® 546 (sc-515532 AF546), Alexa Fluor® 594 (sc-515532 AF594) or Alexa Fluor® 647 (sc-515532 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515532 AF680) or Alexa Fluor® 790 (sc-515532 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Exo84 (H-1) is recommended for detection of Exo84 of mouse, rat and 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 Exo84 siRNA (h): sc-88154, Exo84 siRNA (m): sc-144970, Exo84 shRNA Plasmid (h): sc-88154-SH, Exo84 shRNA Plasmid (m): sc-144970-SH, Exo84 shRNA (h) Lentiviral Particles: sc-88154-V and Exo84 shRNA (m) Lentiviral Particles: sc-144970-V.

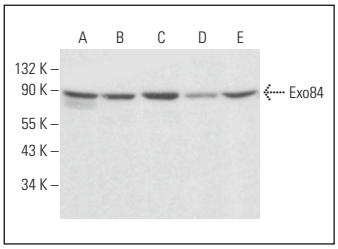
Molecular Weight of Exo84: 84 kDa.

Positive Controls: WI-38 whole cell lysate: sc-364260, HeLa whole cell lysate: sc-2200 or SCC-4 whole cell lysate: sc-364363.

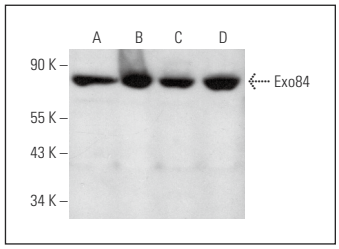
RECOMMENDED SUPPORT REAGENTS

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



Exo84 (H-1): sc-515532. Western blot analysis of Exo84 expression in Jurkat (**A**), K-562 (**B**), U-251-MG (**C**), U266 (**D**) and U-87 MG (**E**) whole cell lysates.



Exo84 (H-1): sc-515532. Western blot analysis of Exo84 expression in LADMAC (**A**), WI-38 (**B**), HeLa (**C**) and SCC-4 (**D**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Ahmed, S.M., et al. 2018. Exocyst dynamics during vesicle tethering and fusion. Nat. Commun. 9: 5140.
2. Emmer, B.T., et al. 2021. Genome-scale CRISPR screening for modifiers of cellular LDL uptake. PLoS Genet. 17: e1009285.
3. Kuramoto, K., et al. 2021. The autophagy protein Becn1 improves Insulin sensitivity by promoting adiponectin secretion via exocyst binding. Cell Rep. 35: 109184.
4. Herath, T.U.B., et al. 2021. *Shigella flexneri* subverts host polarized exocytosis to enhance cell-to-cell spread. Mol. Microbiol. 116: 1328-1346.

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.