SANTA CRUZ BIOTECHNOLOGY, INC.

Sec10 (C-4): sc-514802

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The mammalian exocyst complex (Sec6/8) targets exocytic vesicles to specific docking sites on the plasma membrane. Sec10 is one of eight protein subunits (Sec3, Sec5, Sec6, Sec8, Sec10, Sec15, Exo70, and Exo84) composing the mammalian exocyst complex. Sec10, also designated 71 kDa component of rsec6/8 secretory complex in mouse and rat, is a 77 kDa protein that subcomplexes with Sec15. Human Sec10 maps to chromosome 14q22.3.

REFERENCES

1. Guo, W., et al. 1997. Identification and characterization of homologues of the exocyst component Sec10p. FEBS Lett. 404: 135-139.
2. Roth, D., et al. 1998. Dominant negative alleles of Sec10 reveal distinct domains involved in secretion and morphogenesis in yeast. Mol. Biol. Cell 9: 1725-1739.

CHROMOSOMAL LOCATION

Genetic locus: EXOC5 (human) mapping to 14q22.3; Exoc5 (mouse) mapping to 14 C1.

SOURCE

Sec10 (C-4) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Sec10 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Sec10 (C-4) is available conjugated to agarose (sc-514802 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514802 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514802 PE), fluorescein (sc-514802 FITC), Alexa Fluor® 488 (sc-514802 AF488), Alexa Fluor® 546 (sc-514802 AF546), Alexa Fluor® 594 (sc-514802 AF594) or Alexa Fluor® 647 (sc-514802 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514802 AF680) or Alexa Fluor® 790 (sc-514802 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Sec10 (C-4) is recommended for detection of Sec10 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 Sec10 siRNA (h): sc-106900, Sec10 siRNA (m): sc-153295, Sec10 shRNA Plasmid (h): sc-106900-SH, Sec10 shRNA Plasmid (m): sc-153295-SH, Sec10 shRNA (h) Lentiviral Particles: sc-106900-V and Sec10 shRNA (m) Lentiviral Particles: sc-153295-V.

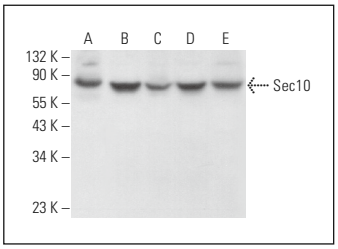
Molecular Weight of Sec10: 77 kDa.

Positive Controls: PC-3 cell lysate: sc-2220, A549 cell lysate: sc-2413 or NCI-H460 whole cell lysate: sc-364235.

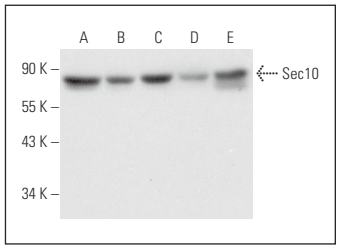
RECOMMENDED SUPPORT REAGENTS

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



Sec10 (C-4): sc-514802. Western blot analysis of Sec10 expression in PC-3 (**A**), U-87 MG (**B**), 3T3-L1 (**C**), NIH/3T3 (**D**) and C6 (**E**) whole cell lysates.



Sec10 (C-4): sc-514802. Western blot analysis of Sec10 expression in PC-3 (**A**), A549 (**B**), NCI-H460 (**C**) and HeLa (**D**) whole cell lysates and human adrenal gland tissue extract (**E**).

SELECT PRODUCT CITATIONS

1. Fujimoto, B.A., et al. 2019. The exocyst complex regulates Insulin-stimulated glucose uptake of skeletal muscle cells. Am. J. Physiol. Endocrinol. Metab. 317: E957-E972.
2. Lira, M., et al. 2021. Exo70 intracellular redistribution after repeated mild traumatic brain injury. Biol. Res. 54: 5.
3. Partisani, M., et al. 2021. EFA6A, an exchange factor for Arf6, regulates early steps in ciliogenesis. J. Cell Sci. 134: jcs249565.
4. Bjornestad, S.A., et al. 2022. Rab33b-exocyst interaction mediates localized secretion for focal adhesion turnover and cell migration. iScience 25: 104250.
5. Nakamura, N.K., et al. 2022. The exocyst is required for CD36 fatty acid translocase trafficking and free fatty acid uptake in skeletal muscle cells. Cells 11: 2440.
6. Ortega, M.A., et al. 2022. Exocyst inactivation in urothelial cells disrupts autophagy and activates non-canonical NFκB. Dis. Model. Mech. 15: dmm049785.

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.