

Sec6 (H-5): sc-374054

BACKGROUND

Sec6 is one of eight protein subunits composing the mammalian exocyst complex (Sec3, Sec5, Sec6, Sec8, Sec10, Sec15, Exo70, and Exo84). The mammalian exocyst complex (sec 6/8) is essential for targeting exocytic vesicles to specific docking sites on the plasma membrane. Sec6/8 regulates polarized secretion in a GTP-dependent manner. Human Sec6 maps to chromosome 5p15.33.

CHROMOSOMAL LOCATION

Genetic locus: EXOC3 (human) mapping to 5p15.33; Exoc3 (mouse) mapping to 13 C1.

SOURCE

Sec6 (H-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 3-27 at the N-terminus of Sec6 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Sec6 (H-5) is available conjugated to agarose (sc-374054 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374054 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-374054 PE), fluorescein (sc-374054 FITC), Alexa Fluor® 488 (sc-374054 AF488), Alexa Fluor® 546 (sc-374054 AF546), Alexa Fluor® 594 (sc-374054 AF594) or Alexa Fluor® 647 (sc-374054 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-374054 AF680) or Alexa Fluor® 790 (sc-374054 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-374054 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

Sec6 (H-5) is recommended for detection of Sec6 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).

Sec6 (H-5) is also recommended for detection of Sec6 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for Sec6 siRNA (h): sc-106816, Sec6 siRNA (m): sc-153317, Sec6 shRNA Plasmid (h): sc-106816-SH, Sec6 shRNA Plasmid (m): sc-153317-SH, Sec6 shRNA (h) Lentiviral Particles: sc-106816-V and Sec6 shRNA (m) Lentiviral Particles: sc-153317-V.

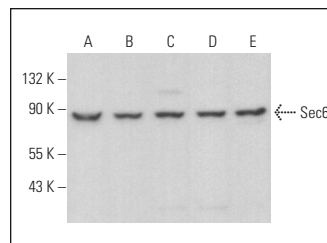
Molecular Weight of Sec6: 87 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, HUV-EC-C whole cell lysate: sc-364180 or Caki-1 cell lysate: sc-2224.

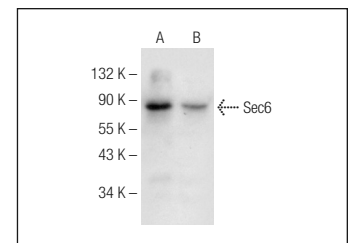
RECOMMENDED SUPPORT REAGENTS

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



Sec6 (H-5): sc-374054. Western blot analysis of Sec6 expression in HUV-EC-C (A), NIH/3T3 (B), Neuro-2A (C), RPE-J (D) and C6 (E) whole cell lysates.



Sec6 (H-5): sc-374054. Western blot analysis of Sec6 expression in MDCK (A) and Caki-1 (B) whole cell lysates.

SELECT PRODUCT CITATIONS

- Kuramoto, K., et al. 2021. The autophagy protein Becln1 improves Insulin sensitivity by promoting adiponectin secretion via exocyst binding. *Cell Rep.* 35: 109184.
- Herath, T.U.B., et al. 2021. *Shigella flexneri* subverts host polarized exocytosis to enhance cell-to-cell spread. *Mol. Microbiol.* 116: 1328-1346.
- Li, H., et al. 2022. EXOC4 promotes diffuse-type gastric cancer metastasis via activating FAK signal. *Mol. Cancer Res.* 20: 1021-1034.
- Kuramoto, K., et al. 2023. Exercise-activated hepatic autophagy via the FN1-α5β1 Integrin pathway drives metabolic benefits of exercise. *Cell Metab.* E-published.

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.