

Seh1 (N-17): sc-79054

BACKGROUND

Seh1, also known as Sec13-like protein, is a 421 amino acid protein belonging to the WD repeat Sec13 family. Localized to the nucleus, Seh1 is a component of the nuclear pore complex Nup107-160. Nuclear pore complexes control bidirectional transport of macromolecules between the cytoplasm and the nucleus. All components of the complex Nup107-160, including Seh1, localize to the kinetochores during mitosis. Seh1 is expressed as two isoforms produced by alternative splicing and contains six WD repeats.

REFERENCES

1. Le Rouzic, E., Mousnier, A., Rustum, C., Stutz, F., Hallberg, E., Dargemont, C. and Benichou, S. 2002. Docking of HIV-1 Vpr to the nuclear envelope is mediated by the interaction with the nucleoporin hCG1. *J. Biol. Chem.* 277: 45091-45098.
2. Cronshaw, J.M., Krutchinsky, A.N., Zhang, W., Chait, B.T. and Matunis, M.J. 2002. Proteomic analysis of the mammalian nuclear pore complex. *J. Cell Biol.* 158: 915-927.
3. Enninga, J., Levay, A. and Fontoura, B.M. 2003. Sec13 shuttles between the nucleus and the cytoplasm and stably interacts with Nup96 at the nuclear pore complex. *Mol. Cell. Biol.* 23: 7271-7284.
4. Loïodice, I., Alves, A., Rabut, G., Van Overbeek, M., Ellenberg, J., Sibarita, J.B. and Doye, V. 2004. The entire Nup107-160 complex, including three new members, is targeted as one entity to kinetochores in mitosis. *Mol. Biol. Cell* 15: 3333-3344.
5. Zuccolo, M., Alves, A., Galy, V., Bolhy, S., Formstecher, E., Racine, V., Sibarita, J.B., Fukagawa, T., Shiekhattar, R., Yen, T. and Doye, V. 2007. The human Nup107-160 nuclear pore subcomplex contributes to proper kinetochore functions. *EMBO J.* 26: 1853-1864.
6. He, Y., Yang, F., Wang, F., Song, S.X., Li, D.A., Guo, Y.J. and Sun, S.H. 2007. The upregulation of expressed proteins in HepG2 cells transfected by the recombinant plasmid-containing HBx gene. *Scand. J. Immunol.* 65: 249-256.

CHROMOSOMAL LOCATION

Genetic locus: SEH1L (human) mapping to 18p11.21; Seh1I (mouse) mapping to 18 E1.

SOURCE

Seh1 (N-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of Seh1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79054 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Seh1 (N-17) is recommended for detection of Seh1 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)], 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).

Seh1 (K-17) is also recommended for detection of Seh1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Seh1 siRNA (h): sc-76465, Seh1 siRNA (m): sc-76466, Seh1 shRNA Plasmid (h): sc-76465-SH, Seh1 shRNA Plasmid (m): sc-76466-SH, Seh1 shRNA (h) Lentiviral Particles: sc-76465-V and Seh1 shRNA (m) Lentiviral Particles: sc-76466-V.

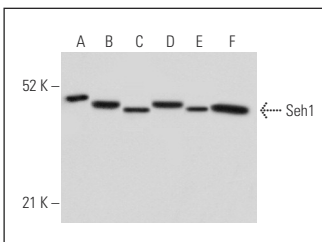
Molecular Weight of Seh1: 46 kDa.

Positive Controls: A549 cell lysate: sc-2413, mouse thymus extract: sc-2406 or mouse testis extract: sc-2405.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Seh1 (N-17): sc-79054. Western blot analysis of Seh1 expression in Jurkat (A), A549 (B) and MCF7 (C) whole cell lysates and mouse thymus (D), mouse brain (E) and mouse testis (F) tissue extracts.

STORAGE

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

PROTOCOLS

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