

Elongin B (h): 293T Lysate: sc-117028

BACKGROUND

Individuals harboring germline mutations in the tumor suppressor gene von Hippel-Lindau (VHL) exhibit an increased susceptibility to a variety of tumors including renal carcinoma, hemangio-blastoma of the central nervous system and pheochromocytoma. The Elongin (SIII) complex has been identified as the functional target of the VHL protein. Elongin is a heterotrimer composed of a transcriptional active subunit designated Elongin A and two regulatory subunits designated Elongin B and Elongin C. VHL functions by binding to the Elongin B and C subunits, inhibiting the transcriptional efficacy of the Elongin complex.

REFERENCES

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2. Krumm, A., et al. 1995. Tumor suppression and transcription elongation: the dire consequences of changing partners. *Science* 269: 1400-1401.
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5. Gross, D.J., et al. 1996. Familial pheochromocytoma associated with a novel mutation in the von Hippel-Lindau gene. *J. Clin. Endocrin. Metab.* 81: 147-149.
6. Waber, P.G., et al. 1996. Frequent allelic loss at chromosome arm 3p is distinct from genetic alterations of the von Hippel-Lindau tumor suppressor gene in head and neck cancer. *Oncogene* 12: 365-369.
7. Brower, C.S., et al. 2002. Mammalian mediator subunit mMED8 is an Elongin BC-interacting protein that can assemble with CUL2 and Rbx1 to reconstitute a ubiquitin ligase. *Proc. Natl. Acad. Sci. USA* 99: 10353-10358.

CHROMOSOMAL LOCATION

Genetic locus: TCEB2 (human) mapping to 16p13.3.

PRODUCT

Elongin B (h): 293T Lysate represents a lysate of human Elongin B transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

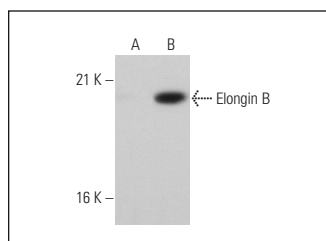
APPLICATIONS

Elongin B (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Elongin B antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Elongin B (10C4): sc-53692 is recommended as a positive control antibody for Western Blot analysis of enhanced human Elongin B expression in Elongin B transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Elongin B (10C4): sc-53692. Western blot analysis of Elongin B expression in non-transfected: sc-117752 (A) and human Elongin B transfected: sc-117028 (B) 293T whole cell lysates.

RESEARCH USE

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