

Elongin B (FL-118): sc-11447

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.

CHROMOSOMAL LOCATION

Genetic locus: TCEB2 (human) mapping to 16p13.3; Tceb2 (mouse) mapping to 17 A3.3.

SOURCE

Elongin B (FL-118) is a rabbit polyclonal antibody raised against amino acids 1-118 representing full length Elongin B of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Elongin B (FL-118) is recommended for detection of Elongin B 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Elongin B (FL-118) is also recommended for detection of Elongin B in additional species, including bovine and porcine.

Suitable for use as control antibody for Elongin B siRNA (h): sc-35294, Elongin B siRNA (m): sc-35295, Elongin B shRNA Plasmid (h): sc-35294-SH, Elongin B shRNA Plasmid (m): sc-35295-SH, Elongin B shRNA (h) Lentiviral Particles: sc-35294-V and Elongin B shRNA (m) Lentiviral Particles: sc-35295-V.

Molecular Weight of Elongin B: 18 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, K-562 nuclear extract: sc-2130 or NIH/3T3 whole cell lysate: sc-2210.

STORAGE

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

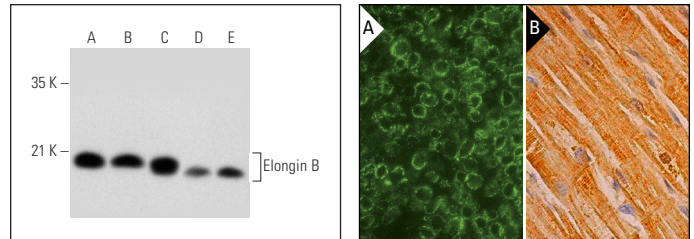
PROTOCOLS

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

RESEARCH USE

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

DATA



Elongin B (FL-118): sc-11447. Western blot analysis of Elongin B expression in K-562 (A), A-431 (B) and Jurkat (C) nuclear extracts and KNRK (D) and NIH/3T3 (E) whole cell lysates.

Elongin B (FL-118): sc-11447. Immunofluorescence staining of normal mouse lymph node frozen section showing perinuclear staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart muscle tissue showing cytoplasmic and nuclear staining of myocytes (B).

SELECT PRODUCT CITATIONS

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- Bogazzi, F., et al. 2009. Changes in the expression of suppressor of cytokine signalling (SOCS) 2 in the colonic mucosa of acromegalic patients are associated with hyperplastic polyps. *Clin. Endocrinol.* 70: 898-906.
- Bello, N.F., et al. 2009. The E3 ubiquitin ligase specificity subunit ASB2β is a novel regulator of muscle differentiation that targets filamin B to proteasomal degradation. *Cell Death Differ.* 16: 921-932.
- Li, X., et al. 2011. Kaposi's sarcoma-associated herpesvirus-encoded latency-associated nuclear antigen reduces interleukin-8 expression in endothelial cells and impairs neutrophil chemotaxis by degrading nuclear p65. *J. Virol.* 85: 8606-8615.
- Hwang, J., et al. 2011. Elongin B-mediated epigenetic alteration of viral chromatin correlates with efficient human cytomegalovirus gene expression and replication. *MBio* 2: e00023-e000111.
- Heir, P., et al. 2013. DCNL1 functions as a substrate sensor and activator of cullin 2-RING ligase. *Mol. Cell. Biol.* 33: 1621-1631.

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Try **Elongin B (D-5): sc-133090** or **Elongin B (10C4): sc-53692**, our highly recommended monoclonal alternatives to Elongin B (FL-118).