SANTA CRUZ BIOTECHNOLOGY, INC.

Elongin A (H-300): sc-11446

The Power to Question

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 (SIII) 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 (SIII) complex.

REFERENCES

1. Garrett, K.P., et al. 1994. Molecular cloning of an essential subunit of RNA polymerase II elongation factor SIII. Proc. Natl. Acad. Sci. USA 91: 5237-5241.
2. Krumm, A., et al. 1995. Tumor suppression and transcription elongation: the dire consequences of changing partners. Science 269: 1400-1401.

CHROMOSOMAL LOCATION

Genetic locus: TCEB3 (human) mapping to 1p36.11; Tceb3 (mouse) mapping to 4 D3.

SOURCE

Elongin A (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Elongin A 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.

STORAGE

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

APPLICATIONS

Elongin A (H-300) is recommended for detection of Elongin A 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).

Suitable for use as control antibody for Elongin A siRNA (h): sc-35292, Elongin A siRNA (m): sc-35293, Elongin A shRNA Plasmid (h): sc-35292-SH, Elongin A shRNA Plasmid (m): sc-35293-SH, Elongin A shRNA (h) Lentiviral Particles: sc-35292-V and Elongin A shRNA (m) Lentiviral Particles: sc-35293-V.

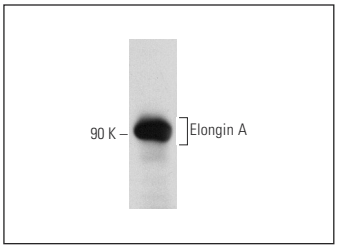
Molecular Weight of Elongin A: 110 kDa.

Positive Controls: mouse testis extract: sc-2405, HeLa nuclear extract: sc-2120 or Jurkat whole cell lysate: sc-2204.

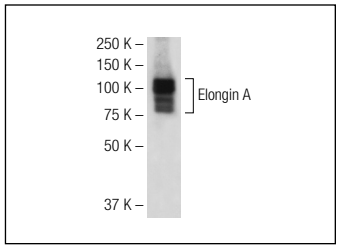
RECOMMENDED SECONDARY REAGENTS

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



Elongin A (H-300): sc-11446. Western blot analysis of Elongin A expression in Jurkat whole cell lysate.



Elongin A (H-300): sc-11446. Western blot analysis of Elongin A expression in mouse testis tissue extract.

SELECT PRODUCT CITATIONS

1. Cooper, C.D., et al. 2011. Identification and characterization of peripheral T-cell lymphoma-associated SEREX antigens. PLoS ONE 6: e23916.

RESEARCH USE

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

PROTOCOLS

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