SANTA CRUZ BIOTECHNOLOGY, INC.

ASXL1 (H-105): sc-98302



BACKGROUND

ASXL1 (additional sex combs-like protein 1) is a 1,541 amino acid protein encoded by the human gene ASXL1. ASXL1 belongs to the Asx family and contains one PHD-type zinc-finger. It also contains one Leu-Xaa-Xaa-Leu-Leu (LXXLL) motif, which may be required for an association with nuclear receptors. ASXL1 is believed to be a polycomb group (PcG) protein. PcG proteins act by forming multi-protein complexes, which are required to maintain the transcriptionally repressive state of homeotic genes throughout development. PcG proteins are not required to initiate repression, but to maintain it during later stages of development. They probably act via methylation of histones, rendering chromatin heritably changed in its expressibility. ASXL1 is a widely expressed nuclear protein with highest expression found in testes.

REFERENCES

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- Katoh, M. and Katoh, M. 2004. Identification and characterization of ASXL3 gene in silico. Int. J. Oncol. 24: 1617-1622.
- Katoh, M. and Katoh, M. 2004. Identification and characterization of human CXXC10 gene in silico. Int. J. Oncol. 25: 1193-1199.
- Fisher, C.L., Randazzo, F., Humphries, R.K. and Brock, H.W. 2006. Characterization of ASXL1, a murine homolog of additional sex combs, and analysis of the Asx-like gene family. Gene 369: 109-118.
- Cho, Y.S., Kim, E.J., Park, U.H., Sin, H.S. and Um, S.J. 2006. Additional sex comb-like 1 (ASXL1), in cooperation with SRC-1, acts as a ligand-dependent coactivator for retinoic acid receptor. J. Biol. Chem. 281: 17588-17598.

CHROMOSOMAL LOCATION

Genetic locus: ASXL1 (human) mapping to 20q11.21; AsxI1 (mouse) mapping to 2 H1.

SOURCE

ASXL1 (H-105) is a rabbit polyclonal antibody raised against amino acids 59-163 mapping near the N-terminus of ASXL1 of human origin.

PRODUCT

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

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98302 X, 200 $\mu g/0.1$ ml.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

ASXL1 (H-105) is recommended for detection of ASXL1 of mouse 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).

ASXL1 (H-105) is also recommended for detection of ASXL1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ASXL1 siRNA (h): sc-72572, ASXL1 siRNA (m): sc-141310, ASXL1 shRNA Plasmid (h): sc-72572-SH, ASXL1 shRNA Plasmid (m): sc-141310-SH, ASXL1 shRNA (h) Lentiviral Particles: sc-72572-V and ASXL1 shRNA (m) Lentiviral Particles: sc-141310-V.

ASXL1 (H-105) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ASXL1: 166 kDa.

Positive Controls: Mouse brain extract: sc-2253 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.

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.

MONOS Satisfation Guaranteed Try ASXL1 (6E2): sc-293204, our highly recommended monoclonal alternative to ASXL1 (H-105).