ASXL1 (6E2): sc-293204

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 Asxl 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 multiprotein 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 testis.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: ASXL1 (human) mapping to 20q11.21; Asxl1 (mouse) mapping to 2 H1.

SOURCE

ASXL1 (6E2) is a mouse monoclonal antibody raised against amino acids 1-84 representing full length ASXL1 of human origin.

PRODUCT

Each vial contains 100 µg IgG2a kappa light chain 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

ASXL1 (6E2) is recommended for detection of ASXL1 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

Molecular Weight of ASXL1: 166 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG Bp-Hrp: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA

ASXL1 (6E2): sc-293204. Western blot analysis of ASXL1 expression in MCF7 whole cell lysate.

SELECT PRODUCT CITATIONS


RESEARCH USE

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

PROTOCOLS

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