**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 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 IgGκ 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-IgGx BP-HRP: sc-516102 or m-IgGx BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: 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**

**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.