

DTX3L (45.Y): sc-100627

The Power to Question

BACKGROUND

The Deltex family is responsible for influencing Notch signaling and may regulate transcription through interactions with specific transcription factors. Deltex proteins have a basic N-terminus, a central proline-rich region and a C-terminal RING-type zinc finger domain, a motif often found in ubiquitin-protein isopeptide ligases (E3). The RING-type zinc finger domain binds two Zn²⁺ atoms and forms a cross-brace motif that is essential for many proteins involved in the ubiquitination pathway. DTX3L (Deltex-3-like), also known as BBAP, is a 740 amino acid protein that is similar to Deltex-3 and acts as a ubiquitin ligase *in vitro*. DTX3L can heterodimerize with Deltex-1, a transcriptional regulator, thereby enhancing the activity of the E3 ubiquitin ligase complex and increasing the influence of E3 on the Notch signaling pathway.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DTX3L (human) mapping to 3q21.1.

SOURCE

DTX3L (45.Y) is a mouse monoclonal antibody raised against recombinant DTX3L of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} 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

DTX3L (45.Y) is recommended for detection of DTX3L of 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).

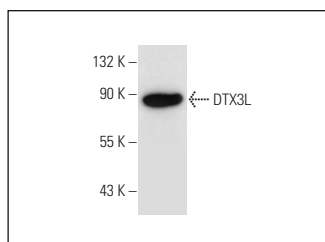
Suitable for use as control antibody for DTX3L siRNA (h): sc-78364, DTX3L shRNA Plasmid (h): sc-78364-SH and DTX3L shRNA (h) Lentiviral Particles: sc-78364-V.

Molecular Weight of DTX3L: 84 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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

DTX3L (45.Y): sc-100627. Western blot analysis of DTX3L expression in A-431 whole cell lysate.

SELECT PRODUCT CITATIONS

- Xu, P., Tao, X., Zhao, C., Huang, Q., Chang, H., Ban, N., Bei, Y., Xia, X., Shen, C., Wang, K., Xu, L., Wu, P., Ren, J. and Wang, D. 2017. DTX3L is upregulated in glioma and is associated with glioma progression. *Int. J. Mol. Med.* 40: 491-498.
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RESEARCH USE

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