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Deltex-2 (h2): 293T Lysate: sc-116923

BACKGROUND

The Deltex family of proteins (Deltex-1, -2, -3 and -4) are mammalian homologs of *Drosophila* Deltex. This family contains 2 WWE domains and a C-terminal RING finger domain, which are regions that are frequently found in E3 ubiquitin ligases. Deltex-2, also known as hDTX2 or RING finger protein 58, is a 622 amino acid protein that plays a regulatory role in the Notch signaling pathway. Like Deltex-1, Deltex-2 interacts with an intracellular domain of Notch. Localized to the cytoplasm with partial localization to the nucleus, Deltex-2 has been shown to function as a ubiquitin ligase protein *in vitro*, possibly explaining the mechanism by which it positively and negatively regulates Notch. Deltex-2 is highly expressed in thymus and pancreas where it exists as either a homomultimer or a heteromultimer with other Deltex family members. Two isoforms of Deltex-2 are expressed due to alternative splicing events.

REFERENCES

- Cornell, M., Evans, D.A., Mann, R., Fostier, M., Flasz, M., Monthatong, M., Artavanis-Tsakonas, S. and Baron, M. 1999. The *Drosophila melanogaster* Suppressor of Deltex gene, a regulator of the Notch receptor signaling pathway, is an E3 class ubiquitin ligase. *Genetics* 152: 567-576.
- Kishi, N., Tang, Z., Maeda, Y., Hirai, A., Mo, R., Ito, M., Suzuki, S., Nakao, K., Kinoshita, T., Kadesch, T., Hui, C., Artavanis-Tsakonas, S., Okano, H. and Matsuno, K. 2001. Murine homologs of Deltex define a novel gene family involved in vertebrate Notch signaling and neurogenesis. *Int. J. Dev. Neurosci.* 19: 21-35.
- Yamamoto, N., Yamamoto, S., Inagaki, F., Kawaichi, M., Fukamizu, A., Kishi, N., Matsuno, K., Nakamura, K., Weinmaster, G., Okano, H. and Nakafuku, M. 2001. Role of Deltex-1 as a transcriptional regulator downstream of the Notch receptor. *J. Biol. Chem.* 276: 45031-45040.
- Endo, Y., Osumi, N. and Wakamatsu, Y. 2003. Deltex/Dtx mediates Notch signaling in regulation of BMP4 expression in cranial neural crest formation during avian development. *Dev. Growth Differ.* 45: 241-248.
- Takeyama, K., Aguiar, R.C., Gu, L., He, C., Freeman, G.J., Kutok, J.L., Aster, J.C. and Shipp, M.A. 2003. The BAL-binding protein BBAP and related Deltex family members exhibit ubiquitin-protein isopeptide ligase activity. *J. Biol. Chem.* 278: 21930-21937.
- Liu, W.H. and Lai, M.Z. 2005. Deltex regulates T cell activation by targeted degradation of active MEK1. *Mol. Cell. Biol.* 25: 1367-1378.
- Yi, Z., Yi, T. and Wu, Z. 2006. cDNA cloning, characterization and expression analysis of DTX2, a human WWE and RING-finger gene, in human embryos. *DNA Seq.* 17: 175-180.
- Lehar, S.M. and Bevan, M.J. 2006. T cells develop normally in the absence of both Deltex-1 and Deltex-2. *Mol. Cell. Biol.* 26: 7358-7371.

CHROMOSOMAL LOCATION

Genetic locus: DTX2 (human) mapping to 7q11.23.

PRODUCT

Deltex-2 (h2): 293T Lysate represents a lysate of human Deltex-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Deltex-2 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Deltex-2 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

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.