



Nulp1 (h): 293T Lysate: sc-369761

BACKGROUND

Nulp1 (nuclear localized protein 1), also known as TCF25 (transcription factor 25 (basic helix-loop-helix)), Hulp1 or FKSG26, is a 676 amino acid protein that plays a role in cell death. A member of the TCF25 family, Nulp1 utilizes its C-terminus to mediate transcriptional repression of SRF *in vitro*, and interacts with XIAP. Nulp1 localizes primarily to the nucleus but is also found in cytosol. Widely expressed, Nulp1 is found at high levels in embryonic brain and adult heart. The gene encoding Nulp1 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

- Baraitser, M. and Preece, M.A. 1983. The Rubinstein-Taybi syndrome: occurrence in two sets of identical twins. *Clin. Genet.* 23: 318-320.
- Kikuno, R., Nagase, T., Ishikawa, K., Hirose, M., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N. and Ohara, O. 1999. Prediction of the coding sequences of unidentified human genes. XIV. The complete sequences of 100 new cDNA clones from brain which code for large proteins *in vitro*. *DNA Res.* 6: 197-205.
- Bomont, P., Cavalier, L., Blondeau, F., Ben Hamida, C., Belal, S., Tazir, M., Demir, E., Topaloglu, H., Korinthenberg, R., Tüysüz, B., Landrieu, P., Hentati, F. and Koenig, M. 2000. The gene encoding gigaxonin, a new member of the cytoskeletal BTB/kelch repeat family, is mutated in giant axonal neuropathy. *Nat. Genet.* 26: 370-374.
- Olsson, M., Durbeek, M., Ekblom, P. and Hjalt, T. 2002. Nulp1, a novel basic helix-loop-helix protein expressed broadly during early embryonic organogenesis and prominently in developing dorsal root ganglia. *Cell Tissue Res.* 308: 361-370.
- Cho, J.H. 2004. Advances in the genetics of inflammatory bowel disease. *Curr. Gastroenterol. Rep.* 6: 467-473.
- Mathew, C.G. and Lewis, C.M. 2004. Genetics of inflammatory bowel disease: progress and prospects. *Hum. Mol. Genet.* 13: R161-R168.
- Cai, Z., Wang, Y., Yu, W., Xiao, J., Li, Y., Liu, L., Zhu, C., Tan, K., Deng, Y., Yuan, W., Liu, M. and Wu, X. 2006. hnulp1, a basic helix-loop-helix protein with a novel transcriptional repressive domain, inhibits transcriptional activity of serum response factor. *Biochem. Biophys. Res. Commun.* 343: 973-981.
- Steen, H. and Lindholm, D. 2008. Nuclear localized protein-1 (Nulp1) increases cell death of human osteosarcoma cells and binds the X-linked inhibitor of apoptosis protein. *Biochem. Biophys. Res. Commun.* 366: 432-437.
- Online Mendelian Inheritance in Man, OMIM™. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 612326. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: TCF25 (human) mapping to 16q24.3.

PRODUCT

Nulp1 (h): 293T Lysate represents a lysate of human Nulp1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Nulp1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Nulp1 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.