SANTA CRUZ BIOTECHNOLOGY, INC.

HDDC2 (h): 293T Lysate: sc-110629

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Enzymes consisting of an HD domain are predicted to exhibit phosphohydrolase activity. These enzymes are suggested to participate in nucleic acid metabolism, signal transduction and possibly other functions in bacteria, archaea and eukaryotes. The HD domain consists of highly conserved residues, specifically histidines or aspartates. HDDC2 (HD domain-containing protein 2), also known as hepatitis C virus NS5A-transactivated protein 2, C6orf74, NS5ATP2 or CGI-130, is a 204 amino acid protein that contains one HD domain and belongs to the HDDC2 family. Existing as three alternatively spliced isoforms, the gene encoding HDDC2 maps to human chromosome 6q22.31. Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Porphyria cutanea tarda, Parkinson's disease and Stickler syndrome have all been associated with genes located on chromosome 6.

REFERENCES

1. Brunner, H.G., van Beersum, S.E., Warman, M.L., Olsen, B.R., Ropers, H.H. and Mariman, E.C. 1994. A Stickler syndrome gene is linked to chromosome 6 near the COL11A2 gene. Hum. Mol. Genet. 3: 1561-1564.
2. Aravind, L. and Koonin, E.V. 1998. The HD domain defines a new superfamily of metal-dependent phosphohydrolases. Trends Biochem. Sci. 23: 469-472.
3. Mungall, A.J., Palmer, S.A., Sims, S.K., Edwards, C.A., Ashurst, J.L., Wilming, L., Jones, M.C., Horton, R., Hunt, S.E., Scott, C.E., Gilbert, J.G., Clamp, M.E., Bethel, G., Milne, S. and Ainscough, R. 2003. Parkin, a gene implicated in autosomal recessive juvenile parkinsonism, is a candidate tumor suppressor gene on chromosome 6q25-q27. Proc. Natl. Acad. Sci. USA 100: 5956-5961.
5. Yang, Q., Cheng, J., Liu, Y., Hong, Y., Wang, J.J. and Zhang, S.L. 2004. Cloning and identification of NS5ATP2 gene and its spliced variant transactivated by hepatitis C virus non-structural protein 5A. World J. Gastroenterol. 10: 1735-1739.
6. Fan, J., Ionita-Laza, I., McQueen, M.B., Devlin, B., Purcell, S., Faraone, S.V., Allen, M.H., Bowden, C.L., Calabrese, J.R., Fossey, M.D., Friedman, E.S., Gyulai, L., Hauser, P., Ketter, T.B., Marangell, L.B., Miklowitz, D.J., Nierenberg, A.A., Patel, J.K., Sachs, G.S., et al. 2010. Linkage disequilibrium mapping of the chromosome 6q21-22.31 bipolar I disorder susceptibility locus. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B: 29-37.

CHROMOSOMAL LOCATION

Genetic locus: HDDC2 (human) mapping to 6q22.31.

PRODUCT

HDDC2 (h): 293T Lysate represents a lysate of human HDDC2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

HDDC2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive HDDC2 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.

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.