SANTA CRUZ BIOTECHNOLOGY, INC.

DPY19L4 (K-16): sc-87699

SANTA CRUZ ®
BIOTECHNOLOGY

The Power to Question

BACKGROUND

DPY19L4 (dpy-19-like 4 *(C. elegans))* is a 723 amino acid multi-pass membrane protein that is widely expressed and belongs to the dpy-19 family. The gene encoding DPY19L4 maps to human chromosome 8, which consists of nearly 146 million base pairs, encodes over 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that map to chromosome 8.

REFERENCES

1. Kashino, G., et al. 2001. Preferential expression of an intact WRN gene in Werner syndrome cell lines in which a normal chromosome 8 has been introduced. Biochem. Biophys. Res. Commun. 289: 111-115.

2. Selicorni, A., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. Hum. Genet. 110: 64-67.

3. McQueen, M.B., et al. 2005. Combined analysis from eleven linkage studies of bipolar disorder provides strong evidence of susceptibility loci on chromosomes 6q and 8q. Am. J. Hum. Genet. 77: 582-595.

4. Carson, A.R., et al. 2006. Duplication and relocation of the functional DPY19L2 gene within low copy repeats. BMC Genomics 7: 45.

5. Mossafa, H., et al. 2006. Non-Hodgkin's lymphomas with Burkitt-like cells are associated with c-Myc amplification and poor prognosis. Leuk. Lymphoma 47: 1885-1893.

6. Agrelo, R., et al. 2006. Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer. Proc. Natl. Acad. Sci. USA 103: 8822-8827.

7. Tsuritani, K., et al. 2007. Distinct class of putative "non-conserved" promoters in humans: comparative studies of alternative promoters of human and mouse genes. Genome Res. 17: 1005-1014.

CHROMOSOMAL LOCATION

Genetic locus: DPY19L4 (human) mapping to 8q22.1; Dpy19l4 (mouse) mapping to 4 A1.

SOURCE

DPY19L4 (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DPY19L4 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87699 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

DPY19L4 (K-16) is recommended for detection of DPY19L4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

DPY19L4 (K-16) is also recommended for detection of DPY19L4 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for DPY19L4 siRNA (h): sc-77675, DPY19L4 siRNA (m): sc-143165, DPY19L4 shRNA Plasmid (h): sc-77675-SH, DPY19L4 shRNA Plasmid (m): sc-143165-SH, DPY19L4 shRNA (h) Lentiviral Particles: sc-77675-V and DPY19L4 shRNA (m) Lentiviral Particles: sc-143165-V.

Molecular Weight of UNQ9433: 84 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.