

DPY19L4 (C-14): sc-87697

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

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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.
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CHROMOSOMAL LOCATION

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

SOURCE

DPY19L4 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus 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-87697 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 (C-14) 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 (C-14) is also recommended for detection of DPY19L4 in additional species, including equine, canine, bovine and porcine.

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 donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.