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PLEKHQ1 (m): 293T Lysate: sc-122638

BACKGROUND

PLEKHQ1 (pleckstrin homology domain containing, family Q member 1), also known as PLEKHQ2 (pleckstrin homology domain containing, family Q member 2), PP1628 or pp9099, is a 490 amino acid protein that is believed to contain at least one pleckstrin homology (PH) domain. PH domains are responsible for mediating protein-protein and protein-lipid interactions. In humans, the gene encoding PLEKHQ1 is found on chromosome 15 and is known to be one of many circulat-responsive genes. Circulat is a plant extract formulation that was derived to prevent the severe onset of type 2 diabetes. Chromosome 15 makes up approximately 3% of the human genome and contains 106 million base pairs encoding more than 700 genes. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes on chromosome 15q. Tay-Sachs disease and Marfan syndrome are also associated with chromosome 15.

REFERENCES

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4. Cachón-González, M.B., et al. 2006. Effective gene therapy in an authentic model of Tay-Sachs-related diseases. *Proc. Natl. Acad. Sci. USA* 103: 10373-10378.
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7. Makoff, A.J., et al. 2007. Detailed analysis of 15q11-q14 sequence corrects errors and gaps in the public access sequence to fully reveal large segmental duplications at breakpoints for Prader-Willi, Angelman, and inv dup(15) syndromes. *Genome Biol.* 8: R114.

CHROMOSOMAL LOCATION

Genetic locus: Plekho2 (mouse) mapping to 9 C.

PRODUCT

PLEKHQ1 (m): 293T Lysate represents a lysate of mouse PLEKHQ1 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.

PROTOCOLS

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

APPLICATIONS

PLEKHQ1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PLEKHQ1 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.