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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic



PHLDB3 siRNA (m): sc-152229

BACKGROUND

PHLDB3 (Pleckstrin homology-like domain, family B, member 3) is a 640 amino acid coiled-coil protein that exists as two alternatively spliced isoforms. Containing one PH domain, PHLDB3 mediates phosphoinositide binding. PHLDB3 is up-regulated in hepatitis C-related infections, a major cause of hepatocellular carcinoma. The gene that encodes PHLDB3 maps to human chromosome 19q13.31, which consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 contains the greatest gene density of the human chromosomes and is the genetic home for a number of immunoglobulin superfamily members, including killer cell and leukocyte Ig-like receptors, ICAMs, the CEACAM and PSG families, and Fc α receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes are also linked to chromosome 19.

REFERENCES

- LaPoint, S.F., Patel, U. and Rubio, A. 2000. Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). *Adv. Anat. Pathol.* 7: 307-321.
- Buchet-Poyau, K., Mehenni, H., Radhakrishna, U. and Antonarakis, S.E. 2002. Search for the second Peutz-Jeghers syndrome locus: exclusion of the STK13, PRKCG, KLK10, and PSCD2 genes on chromosome 19 and the STK11IP gene on chromosome 2. *Cytogenet. Genome Res.* 97: 171-178.
- Grimwood, J., Gordon, L.A., Olsen, A., Terry, A., Schmutz, J., Lamerdin, J., Hellsten, U., Goodstein, D., Couronne, O., Tran-Gyamfi, M., Aerts, A., Altherr, M., Ashworth, L., Bajorek, E., Black, S., et al. 2004. The DNA sequence and biology of human chromosome 19. *Nature* 428: 529-535.
- Parham, P. 2005. Immunogenetics of killer cell immunoglobulin-like receptors. *Mol. Immunol.* 42: 459-462.
- Vikelis, M., Papatriantafyllou, J. and Karageorgiou, C.E. 2007. A novel CADASIL-causing mutation in a stroke patient. *Swiss Med. Wkly.* 137: 323-325.
- Igarashi, J., Muroi, S., Kawashima, H., Wang, X., Shinojima, Y., Kitamura, E., Oinuma, T., Nemoto, N., Song, F., Ghosh, S., Held, W.A. and Nagase, H. 2008. Quantitative analysis of human tissue-specific differences in methylation. *Biochem. Biophys. Res. Commun.* 376: 658-664.
- Huang, C., Chen, H., Cassidy, W. and Howell, C.D. 2008. Peripheral blood gene expression profile associated with sustained virologic response after peginterferon plus ribavirin therapy for chronic hepatitis-C genotype 1. *J. Natl. Med. Assoc.* 100: 1425-1433.
- Szameit, S., Vierlinger, K., Farmer, L., Tuschl, H. and Noehammer, C. 2009. Gene expression studies in cultured dendritic cells: new indicators for the discrimination of skin sensitizers and irritants *in vitro*. *Clin. Exp. Allergy* 39: 856-868.
- De Giorgi, V., Monaco, A., Worchech, A., Tornesello, M., Izzo, F., Buonaguro, L., Marincola, F.M., Wang, E. and Buonaguro, F.M. 2009. Gene profiling, biomarkers and pathways characterizing HCV-related hepatocellular carcinoma. *J. Transl. Med.* 7: 85.

CHROMOSOMAL LOCATION

Genetic locus: Phldb3 (mouse) mapping to 7 A3.

PRODUCT

PHLDB3 siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see PHLDB3 shRNA Plasmid (m): sc-152229-SH and PHLDB3 shRNA (m) Lentiviral Particles: sc-152229-V as alternate gene silencing products.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNases and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 μ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNase-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

PHLDB3 siRNA (m) is recommended for the inhibition of PHLDB3 expression in mouse cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 μ M in 66 μ l. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor PHLDB3 gene expression knockdown using RT-PCR Primer: PHLDB3 (m)-PR: sc-152229-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

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.