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ZC3H12D siRNA (m): sc-155463

BACKGROUND

The zinc finger CCCH domain-containing protein 12D (ZC3H12D), also known as p34, TFL, MCPIP4 (MCP-induced protein 4), is a 527 amino acid protein that contains one C3H1-type zinc finger domain and belongs to the ZC3H12 family. ZC3H12D is thought to function as a novel tumor suppressor and RNase, thereby modifying levels of target RNA. Existing as two alternatively spliced isoforms, ZC3H12D binds magnesium as a cofactor has been found to be induced in THP-1 cells when exposed to lipopolysaccharide (LPS) over a prolonged period of time. The gene encoding ZC3H12D maps to human chromosome 6q25.1, which falls within a region associated with lung cancer susceptibility, and a ZC3H12D chromosomal aberration may be the cause of diffuse large B-cell lymphoma from follicular lymphoma.

REFERENCES

1. Bailey-Wilson, J.E., Amos, C.I., Pinney, S.M., Petersen, G.M., de Andrade, M., Wiest, J.S., Fain, P., Schwartz, A.G., You, M., Franklin, W., Klein, C., Gazdar, A., Rothschild, H., Mandal, D., Coons, T., Slusser, J., et al. 2004. A major lung cancer susceptibility locus maps to chromosome 6q23-25. *Am. J. Hum. Genet.* 75: 460-474.
2. Minagawa, K., Yamamoto, K., Nishikawa, S., Ito, M., Sada, A., Yakushijiin, K., Okamura, A., Shimoyama, M., Katayama, Y. and Matsui, T. 2007. Deregulation of a possible tumour suppressor gene, ZC3H12D, by translocation of IGK@ in transformed follicular lymphoma with t(2;6)(p12;q25). *Br. J. Haematol.* 139: 161-163.
3. Wang, M., Vikis, H.G., Wang, Y., Jia, D., Wang, D., Bierut, L.J., Bailey-Wilson, J.E., Amos, C.I., Pinney, S.M., Petersen, G.M., de Andrade, M., Yang, P., Wiest, J.S., Fain, P.R., Schwartz, A.G., Gazdar, A., et al. 2007. Identification of a novel tumor suppressor gene p34 on human chromosome 6q25.1. *Cancer Res.* 67: 93-99.
4. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611106. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Liang, J., Wang, J., Azfer, A., Song, W., Tromp, G., Kolattukudy, P.E. and Fu, M. 2008. A novel CCCH-zinc finger protein family regulates proinflammatory activation of macrophages. *J. Biol. Chem.* 283: 6337-6346.

CHROMOSOMAL LOCATION

Genetic locus: Zc3h12d (mouse) mapping to 10 A1.

PRODUCT

ZC3H12D siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs 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 ZC3H12D shRNA Plasmid (m): sc-155463-SH and ZC3H12D shRNA (m) Lentiviral Particles: sc-155463-V as alternate gene silencing products.

For independent verification of ZC3H12D (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-155463A, sc-155463B and sc-155463C.

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

ZC3H12D siRNA (m) is recommended for the inhibition of ZC3H12D 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 ZC3H12D gene expression knockdown using RT-PCR Primer: ZC3H12D (m)-PR: sc-155463-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.