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COMMD3 siRNA (m): sc-142485

BACKGROUND

COMMD family members are a group of evolutionary conserved proteins that share a common COMM domain at the extreme C-terminus, which provides an interface for protein-protein interactions. Of the ten family members, the role of COMMD1, also known as MURR1, is best characterized, functioning to inhibit TNF-induced NF κ B p50 and to facilitate biliary copper excretion within hepatocytes. Most, if not all, COMMD proteins have been found to play a role in the regulation NF κ B and, despite their similarities, seem to function in unique and non-redundant pathways. COMMD proteins may also play a role in the function of epithelial sodium channels, cell proliferation, copper homeostasis and in the regulation of the ubiquitin pathway. With highest expression in thymus, COMMD3 (COMM domain-containing protein 3), also known as BUP, is a 195 amino acid protein that contains one COMM domain and is encoded by a gene that maps to human chromosome 10p12.31.

REFERENCES

1. Burstein, E., Hoberg, J.E., Wilkinson, A.S., Rumble, J.M., Csomos, R.A., Komarck, C.M., Maine, G.N., Wilkinson, J.C., Mayo, M.W. and Duckett, C.S. 2005. COMMD proteins, a novel family of structural and functional homologs of MURR1. *J. Biol. Chem.* 280: 22222-22232.
2. de Bie, P., van de Sluis, B., Burstein, E., Duran, K.J., Berger, R., Duckett, C.S., Wijmenga, C. and Klomp, L.W. 2006. Characterization of COMMD protein-protein interactions in NF κ B signalling. *Biochem. J.* 398: 63-71.
3. Maine, G.N. and Burstein, E. 2007. COMMD proteins and the control of the NF κ B pathway. *Cell Cycle* 6: 672-676.
4. Maine, G.N. and Burstein, E. 2007. COMMD proteins: COMMing to the scene. *Cell. Mol. Life Sci.* 64: 1997-2005.
5. van de Sluis, B., Muller, P., Duran, K., Chen, A., Groot, A.J., Klomp, L.W., Liu, P.P. and Wijmenga, C. 2007. Increased activity of hypoxia-inducible factor 1 is associated with early embryonic lethality in Commd1 null mice. *Mol. Cell. Biol.* 27: 4142-4156.
6. Maine, G.N., Mao, X., Muller, P.A., Komarck, C.M., Klomp, L.W. and Burstein, E. 2008. COMMD1 expression is controlled by critical residues that determine XIAP binding. *Biochem. J.* 417: 601-609.
7. Burkhead, J.L., Morgan, C.T., Shinde, U., Haddock, G. and Lutsenko, S. 2008. COMMD1 forms oligomeric complexes targeted to the endocytic membranes via specific interactions with PtdIns(4,5)p2. *J. Biol. Chem.* 284: 696-707.

CHROMOSOMAL LOCATION

Genetic locus: Commd3 (mouse) mapping to 2 A3.

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.

PRODUCT

COMMD3 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 COMMD3 shRNA Plasmid (m): sc-142485-SH and COMMD3 shRNA (m) Lentiviral Particles: sc-142485-V as alternate gene silencing products.

For independent verification of COMMD3 (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-142485A, sc-142485B and sc-142485C.

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

COMMD3 siRNA (m) is recommended for the inhibition of COMMD3 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 COMMD3 gene expression knockdown using RT-PCR Primer: COMMD3 (m)-PR: sc-142485-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.