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- Mindermengenzuschlag
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SANTA CRUZ BIOTECHNOLOGY, INC.

IDAS siRNA (m): sc-143838

BACKGROUND

IDAS, also known as multicilin or MCI, is a 385 amino acid nuclear protein that belongs to the geminin family. Existing as a homodimer, IDAS targets GMNN to the nucleus and prevents GMNN interaction with CDT1. While IDAS is highly expressed during interphase and early mitosis, expression decreases during anaphase to become undetectable during telophase and cytokinesis. IDAS is a probable target of the anaphase promoting complex/cyclosome (APC/C), which regulates its level in the cell during the mitotic cell cycle. IDAS also acts as a transcription regulator that is required for multiciliate cell differentiation. The gene that encodes IDAS maps to human chromosome 5q11.2.

REFERENCES

1. Lygerou, Z., et al. 2000. Cell cycle. License withheld—geminin blocks DNA replication. Science 290: 2271-2273.
2. Yoshida, K., et al. 2004. Regulation of geminin and Cdt1 expression by E2F transcription factors. Oncogene 23: 3802-3812.
3. Saxena, S., et al. 2005. Geminin-Cdt1 balance is critical for genetic stability. Mutat. Res. 569: 111-121.
4. Montanari, M., et al. 2006. Role of geminin: from normal control of DNA replication to cancer formation and progression? Cell Death Differ. 13: 1052-1056.
5. Jin, J., et al. 2006. A family of diverse Cul4-Ddb1-interacting proteins includes Cdt2, which is required for S phase destruction of the replication factor Cdt1. Mol. Cell 23: 709-721.
6. Pefani, D.E., et al. 2011. Idas, a novel phylogenetically conserved geminin-related protein, binds to geminin and is required for cell cycle progression. J. Biol. Chem. 286: 23234-23246.
7. Stubbs, J.L., et al. 2012. Multicilin promotes centriole assembly and ciliogenesis during multiciliate cell differentiation. Nat. Cell Biol. 14: 140-147.

CHROMOSOMAL LOCATION

Genetic locus: Mcin (mouse) mapping to 13 D2.2.

PRODUCT

IDAS 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see IDAS shRNA Plasmid (m): sc-143838-SH and IDAS shRNA (m) Lentiviral Particles: sc-143838-V as alternate gene silencing products.

For independent verification of IDAS (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-143838A, sc-143838B and sc-143838C.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support 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 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

IDAS siRNA (m) is recommended for the inhibition of IDAS 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 µM in 66 µl. 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 IDAS gene expression knockdown using RT-PCR Primer: IDAS (m)-PR: sc-143838-PR (20 µl). 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.