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- Trockeneiszuschlag
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- Expressversand

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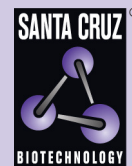
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Importin-11 siRNA (m): sc-146232

BACKGROUND

The Importin complex consists of Importin- α and Importin- β proteins which assist in the transport of arginine- or serine-rich (SR) peptides across the nucleus. Importin-11, also known as IPO11 or RanBP11, is a 975 amino acid protein that contains one importin N-terminal domain and 15 HEAT repeats and belongs to the Importin- β family. Localized to both the nucleus and the cytoplasm, Importin-11 interacts with UBE2E3 and plays a role in nuclear protein import, specifically functioning as a nuclear transport receptor that mediates the docking of the Importin complex to the nuclear pore complex (NPC). The gene encoding Importin-11 maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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3. Wang, W., Yang, Y., Li, L. and Shi, Y. 2003. Synleucin, a novel leucine-rich repeat protein that increases the intensity of pleiotropic cytokine responses. *Biochem. Biophys. Res. Commun.* 305: 981-988.
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CHROMOSOMAL LOCATION

Genetic locus: Ipo11 (mouse) mapping to 13 D2.1.

PRODUCT

Importin-11 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 Importin-11 shRNA Plasmid (m): sc-146232-SH and Importin-11 shRNA (m) Lentiviral Particles: sc-146232-V as alternate gene silencing products.

For independent verification of Importin-11 (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-146232A, sc-146232B and sc-146232C.

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

Importin-11 siRNA (m) is recommended for the inhibition of Importin-11 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.

GENE EXPRESSION MONITORING

Importin-11 (14): sc-136531 is recommended as a control antibody for monitoring of Importin-11 gene expression knockdown by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) or immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor Importin-11 gene expression knockdown using RT-PCR Primer: Importin-11 (m)-PR: sc-146232-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.