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- Expressversand

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# Pyrin siRNA (m): sc-152608

## BACKGROUND

Pyrin, also designated marenostriin or Mediterranean fever protein, controls the inflammatory response in myelomonocytic cells in cytoskeletal organization. Defects in the gene coding for Pyrin may cause Mediterranean fever, a hereditary autosomal recessive disorder characterized by recurrent fever, serosal inflammation and pain in the chest or abdomen. Pyrin is expressed in peripheral blood leucocytes (particularly in mature granulocytes) but not in lymphocytes. It can also be detected in spleen, muscle, lung and in several myeloid leukemic, colon cancer and prostate cancer cell lines.

## REFERENCES

1. Dode, C., et al. 2000. Mutations in the MEFV gene in a large series of patients with a clinical diagnosis of familial Mediterranean fever. *Am. J. Med. Genet.* 92: 241-246.
2. Papin, S., et al. 2000. Alternative splicing at the MEFV locus involved in familial Mediterranean fever regulates translocation of the marenostriin/Pyrin protein to the nucleus. *Hum. Mol. Genet.* 9: 3001-3009.
3. Centola, M., et al. 2000. The gene for familial Mediterranean fever, MEFV, is expressed in early leukocyte development and is regulated in response to inflammatory mediators. *Blood* 95: 3223-3231.
4. Aglipay, J.A., et al. 2003. A member of the Pyrin family, IFI-16, is a novel BRCA1-associated protein involved in the p53-mediated apoptosis pathway. *Oncogene* 22: 8931-8938.
5. Shoham, N.G., et al. 2003. Pyrin binds the PSTPIP1/CD2BP1 protein, defining familial Mediterranean fever and PAPA syndrome as disorders in the same pathway. *Proc. Natl. Acad. Sci. USA* 100: 13501-13506.
6. Kubo, T., et al. 2004. Apoptotic speck protein-like, a highly homologous protein to apoptotic speck protein in the pyrin domain, is silenced by DNA methylation and induces apoptosis in human hepatocellular carcinoma. *Cancer Res* 64: 5172-5177.

## CHROMOSOMAL LOCATION

Genetic locus: Mefv (mouse) mapping to 16 A1.

## PRODUCT

Pyrin 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Pyrin shRNA Plasmid (m): sc-152608-SH and Pyrin shRNA (m) Lentiviral Particles: sc-152608-V as alternate gene silencing products.

For independent verification of Pyrin (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-152608A, sc-152608B and sc-152608C.

## PROTOCOLS

See our web site at [www.scbt.com](http://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  $\mu$ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNase-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## APPLICATIONS

Pyrin siRNA (m) is recommended for the inhibition of Pyrin 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  $\mu$ M in 66  $\mu$ 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 Pyrin gene expression knockdown using RT-PCR Primer: Pyrin (m)-PR: sc-152608-PR (20  $\mu$ 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.