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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Pira2 siRNA (m): sc-152273

### BACKGROUND

Pira2 (paired-Ig-like receptor A2), also known as 6M23, is a 680 amino acid protein that belongs to the paired-Ig-like receptor A family. The genes encoding paired-Ig-like receptor A proteins tend to cluster in the leukocyte receptor complex (LRC) on murine chromosome 7 A1. Members of the paired-Ig-like receptor A family include: Pira1, Pira2, Pira3, Pira4, Pira6, Pira7 and Pira11. Pira1, also known as 6M21, Ly89 or Pir, is a 680 amino acid protein that is thought to be an Ig-like transmembrane receptor that contains six Ig-like loops. Pira1 has a short cytoplasmic tail and a charged Arg residue in the transmembrane region, suggesting that Pira1 may associate with an additional transmembrane protein to form a signal transducing complex.

### REFERENCES

1. Kubagawa, H., Burrows, P.D. and Cooper, M.D. 1997. A novel pair of immunoglobulin-like receptors expressed by B cells and myeloid cells. *Proc. Natl. Acad. Sci. USA* 94: 5261-5266.
2. Kasahara, M., Watanabe, Y., Sumasu, M. and Nagata, T. 2002. A family of MHC class I-like genes located in the vicinity of the mouse leukocyte receptor complex. *Proc. Natl. Acad. Sci. USA* 99: 13687-13692.
3. Takai, T. 2005. Paired immunoglobulin-like receptors and their MHC class I recognition. *Immunology* 115: 433-440.
4. Torii, I., Oka, S., Hotomi, M., Benjamin, W.H., Takai, T., Kearney, J.F., Briles, D.E. and Kubagawa, H. 2008. PIR-B-deficient mice are susceptible to Salmonella infection. *J. Immunol.* 181: 4229-4239.
5. Licciulli, S., Cambiaghi, V., Scafetta, G., Gruszka, A.M. and Alcalay, M. 2010. Pirin downregulation is a feature of AML and leads to impairment of terminal myeloid differentiation. *Leukemia* 24: 429-437.

### CHROMOSOMAL LOCATION

Genetic locus: Pira2 (mouse) mapping to 7 A1.

### PRODUCT

Pira2 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Pira2 shRNA Plasmid (m): sc-152273-SH and Pira2 shRNA (m) Lentiviral Particles: sc-152273-V as alternate gene silencing 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

Pira2 siRNA (m) is recommended for the inhibition of Pira2 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 Pira2 gene expression knockdown using RT-PCR Primer: Pira2 (m)-PR: sc-152273-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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.