

# FIBP siRNA (m): sc-145174

## BACKGROUND

Fibroblast growth factors (FGFs) represent a family of over 20 distinct proteins that are ubiquitously expressed in mammalian systems. FGF activity influences development, adult tissue homeostasis, angiogenesis and cancer progression. The FGF-1 intracellular-binding protein (FIBP) is a 364 amino acid protein that binds to internalized FGF-1 and is thought to be involved in mitogenic function of FGF-1. FIBP localizes to the nucleus and is highly expressed in heart, skeletal muscle and pancreas and at lower levels in brain, placenta, liver and kidney. The gene encoding FIBP is expressed as two isoforms, designated long and short, which are produced as a result of alternative splicing events.

## REFERENCES

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4. Kolpakova, E., Frengen, E., Stokke, T. and Olsnes, S. 2000. Organization, chromosomal localization and promoter analysis of the gene encoding human acidic fibroblast growth factor intracellular binding protein. *Biochem. J.* 352: 629-635.
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7. Zakrzewska, M., Marcinkowska, E. and Wiedłocha, A. 2008. FGF-1: from biology through engineering to potential medical applications. *Crit. Rev. Clin. Lab Sci.* 45: 91-135.
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## CHROMOSOMAL LOCATION

Genetic locus: *Fibp* (mouse) mapping to 19 A.

## 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.

## PRODUCT

FIBP siRNA (m) is a pool of 2 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 FIBP shRNA Plasmid (m): sc-145174-SH and FIBP shRNA (m) Lentiviral Particles: sc-145174-V as alternate gene silencing products.

For independent verification of FIBP (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-145174A and sc-145174B.

## 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

FIBP siRNA (m) is recommended for the inhibition of FIBP 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 FIBP gene expression knockdown using RT-PCR Primer: FIBP (m)-PR: sc-145174-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.