SANTA CRUZ BIOTECHNOLOGY, INC.

HABP4 siRNA (m): sc-145888

BACKGROUND

The intracellular hyaluronan-binding protein 4 (HABP4 or iHABP4), also designated Ki-1/57, is a cytoplasmic and nuclear protein that is phosphorylated on serine and threonine residues. HABP4 is expressed as a protein of 413 amino acids and is phosphorylated by phorbol 12-myristate 13-acetate (PMA)-activated PKC isoforms at Thr 354 and Thr 375. HABP4 interacts with hyaluron, the adaptor protein RACK1, the transcription factor MEF2C and the chromatin remodeling factor CHD3, suggesting that it may be involved in the regulation of transcription. However, its actual function has yet to be elucidated. HABP4 is highly expressed in brain, heart, and kidney and is moderately expressed in skeletal muscle. Also, HABP4 is expressed in a variety of tumor cell lines and in activated, but not resting, leukocytes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Habp4 (mouse) mapping to 13 B3.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

HABP4 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 HABP4 shRNA Plasmid (m): sc-145888-SH and HABP4 shRNA (m) Lentiviral Particles: sc-145888-V as alternate gene silencing products.

For independent verification of HABP4 (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-145888A, sc-145888B and sc-145888C.

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

HABP4 siRNA (m) is recommended for the inhibition of HABP4 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 HABP4 gene expression knockdown using RT-PCR Primer: HABP4 (m)-PR: sc-145888-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.