# Kazrin siRNA (m): sc-146345



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# **BACKGROUND**

Kazrin, also known as KAZ, KAZN or KIAA1026, is a 775 amino acid protein that contains 3 SAM (sterile  $\alpha$  motif) domains and belongs to the Kazrin family. Kazrin exists as five alternatively spliced isoforms, designated 1-5. Localizing to the cytoplasm, Kazrin isoforms 2, 3 and 4 are expressed in hair follicles, interfollicular epidermis, and various cell lines including keratinocytes. Kazrin co-localizes with desmoplakin and interacts with the N-terminus of periplakin (PPL). Kazrin is a component of the cornified envelope of keratinocytes and may play a role in desmosome assembly, cell adhesion, epidermal differentiation and cytoskeletal organization. Overexpression of Kazrin may lead to changes in cell shape, decrease levels of filamentous actin and impaired intercellular junction assembly. The gene encoding Kazrin maps to human chromosome 1p36.21 and mouse chromosome 4 E1.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: Kazn (mouse) mapping to 4 E1.

# **PRODUCT**

Kazrin 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 Kazrin shRNA Plasmid (m): sc-146345-SH and Kazrin shRNA (m) Lentiviral Particles: sc-146345-V as alternate gene silencing products.

# **PROTOCOLS**

See our web site at 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**

Kazrin siRNA (m) is recommended for the inhibition of Kazrin 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 Kazrin gene expression knockdown using RT-PCR Primer: Kazrin (m)-PR: sc-146345-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.

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