SANTA CRUZ BIOTECHNOLOGY, INC.

KRTDAP siRNA (m): sc-146607

BACKGROUND

KRTDAP (keratinocyte differentiation-associated protein), also known as KDAP or UNQ467, is a 99 amino acid secreted protein that may participate in the regulation of keratinocyte differentiation and maintenance of stratified epithelia. Highly expressed in the lamellar granules of granular keratinocytes and in the intracellular space of the stratum corneum in skin, KRTDAP may play a role in embryonic skin morphogenesis. Expression levels of KRTDAP increase in psoriatic skin. KRTDAP is additionally expressed in tongue, stomach, esophagus and oral mucosa, with lower levels of expression found in thymus, bladder and uterus. Existing as two alternatively spliced isoforms, the gene encoding KRTDAP maps to human chromosome 19q13.12.

REFERENCES

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3. Jessen, B.A., Qin, Q., Phillips, M.A., Phillips, D.L. and Rice, R.H. 2001. Keratinocyte differentiation marker suppression by arsenic: mediation by AP1 response elements and antagonism by tetradecanoylphorbol acetate. Toxicol. Appl. Pharmacol. 174: 302-311.
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CHROMOSOMAL LOCATION

Genetic locus: Krtdap (mouse) mapping to 7 B1.

PRODUCT

KRTDAP 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see KRTDAP shRNA Plasmid (m): sc-146607-SH and KRTDAP shRNA (m) Lentiviral Particles: sc-146607-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 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

KRTDAP siRNA (m) is recommended for the inhibition of KRTDAP 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.

RESEARCH USE

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