

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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ΙκΒ-ζ siRNA (m): sc-44897



The Power to Question

BACKGROUND

IκB- ξ (also called MAIL-S or INAP) is a member of the IκB family. It shares a 30% identity with other family members and consists of six ankyrin repeats at its C-terminal. IκB- ξ accumulates in the nucleus and, in humans, associates with the p50 and p65 subunits of nuclear NFκB via its ankyrin repeats. The mouse homologue of IκB- ξ has only been shown to associate with the p50 subunit. IκB- ξ inhibits DNA binding and activity of the transcription factor NFκB. Distinct from other IκB family members, IκB- ξ is not degraded upon cell stimulation and activation of NFκB, rather evidence shows that it is upregulated under these circumstances. This suggests that IκB- ξ plays a significant role in regulation of NFκB and that NFκB may regulate IκB- ξ in a negative feedback loop. Regulation of NFκB by IκB- ξ may differ depending on the species.

REFERENCES

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- Muta, T., et al. 2003. IκΒ-ζ, a new anti-inflammatory nuclear protein induced by lipopolysaccharide, is a negative regulator for NFκB. J. Endotoxin Res. 9: 187-191.
- Shiina, T. et al. 2004. Targeted disruption of MAIL, a nuclear IκB protein, leads to severe atopic dermatitis-like disease. J. Biol. Chem. 279: 55493-55498
- 4. Kusaka, M. et al. 2005. Gene expression profile in rat renal isografts from brain dead donors. Transplant. Proc. 37: 364-366.
- Yamazaki, S., et al. 2005. Stimulus-specific induction of a novel NFκB regulator, IκB-ζ, via Toll/Interleukin-1 receptor is mediated by mRNA stabilization. J. Biol. Chem. 280: 1678-1687.
- 6. Motoyama, M., et al. 2005. Positive and negative regulation of NFκB-mediated transcription by IκB- ζ , an inducible nuclear protein. J. Biol. Chem. 280: 7444-7451.

CHROMOSOMAL LOCATION

Genetic locus: Nfkbiz (mouse) mapping to 16 C1.1.

PRODUCT

IκB- ζ 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 IκB- ζ shRNA Plasmid (m): sc-44897-SH and IκB- ζ shRNA (m) Lentiviral Particles: sc-44897-V as alternate gene silencing products.

For independent verification of $l\kappa B$ - ζ (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-44897A, sc-44897B and sc-44897C.

RESEARCH USE

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

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20 $^{\circ}$ C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20 $^{\circ}$ C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 μ l of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNAse-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

lkB- ζ siRNA (m) is recommended for the inhibition of lkB- ζ 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 I_KB - ζ gene expression knockdown using RT-PCR Primer: I_KB - ζ (m)-PR: sc-44897-PR (20 μI , 502 bp). 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.

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