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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

EID-2B siRNA (m): sc-148677

BACKGROUND

EID-2B (EP300 interacting inhibitor of differentiation 2B), also known as EID3 (EID-2-like inhibitor of differentiation 3), is a 161 amino acid protein that localizes to the nucleus and may exists as either a homodimer or a heterodimer with EID-2. Interacting with HDAC1 and HDAC2, EID-2B functions to repress MyoD-depedent transcription and glucocorticoid receptor (GR)-dependent transcription and may also repress muscle differentiation. The gene encoding EID-2B maps to human chromosome 19q13.2, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs).

REFERENCES

1. McKinsey, T.A., Zhang, C.L. and Olson, E.N. 2001. Control of muscle development by dueling HATs and HDACs. Curr. Opin. Genet. Dev. 11: 497-504.
2. Ji, A., Dao, D., Chen, J. and MacLellan, W.R. 2003. EID-2, a novel member of the EID family of p300-binding proteins inhibits transactivation by MyoD. Gene 318: 35-43.
3. Miyake, S., Yanagisawa, Y. and Yuasa, Y. 2003. A novel EID-1 family member, EID-2, associates with histone deacetylases and inhibits muscle differentiation. J. Biol. Chem. 278: 17060-17065.
4. Sasajima, Y., Tanaka, H., Miyake, S. and Yuasa, Y. 2005. A novel EID family member, EID-3, inhibits differentiation and forms a homodimer or heterodimer with EID-2. Biochem. Biophys. Res. Commun. 333: 969-975.
5. Parham, P. 2005. Immunogenetics of killer cell immunoglobulin-like receptors. Mol. Immunol. 42: 459-462.

CHROMOSOMAL LOCATION

Genetic locus: Eid2b (mouse) mapping to 7 A3.

PRODUCT

EID-2B 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 EID-2B shRNA Plasmid (m): sc-148677-SH and EID-2B shRNA (m) Lentiviral Particles: sc-148677-V as alternate gene silencing 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

EID-2B siRNA (m) is recommended for the inhibition of EID-2B 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 EID-2B gene expression knockdown using RT-PCR Primer: EID-2B (m)-PR: sc-148677-PR (20 µl). 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.

PROTOCOLS

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