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SANTA CRUZ BIOTECHNOLOGY, INC.

PDC-TREM siRNA (m): sc-152122

BACKGROUND

Triggering receptor expressed on myeloid cells (TREM) family of proteins are cell surface receptors that may be involved in the innate and adaptive immune response. PDC-TREM (plasmacytoid dendritic cell-specific receptor), also known as Trem4 (triggering receptor expressed in myeloid cells 4) or A530064D06Rik, is a 229 amino acid protein that is encoded by a gene mapping to mouse chromosome 17 C. No human homolog to PDC-TREM currently exists. PDC-TREM is preferentially expressed following TLR (Toll-like receptor) stimulation, and associates with plexin-A1 on the PDC cell surface. Inhibition of PDC-TREM-plexin-A1 binding results in reduced PDC-TREM-dependent activation of IFN-α, as well as reduced activation of cell signaling molecules.

REFERENCES

1. Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., et al. 2000. RIKEN integrated sequence analysis (RISA) system—384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10: 1757-1771.
2. Washington, A.V., Quigley, L. and McVicar, D.W. 2002. Initial characterization of TREM-like transcript (TLT)-1: a putative inhibitory receptor within the TREM cluster. Blood 100: 3822-3824.
3. Allcock, R.J., Barrow, A.D., Forbes, S., Beck, S. and Trowsdale, J. 2003. The human TREM gene cluster at 6p21.1 encodes both activating and inhibitory single IgV domain receptors and includes NKp44. Eur. J. Immunol. 33: 567-577.
4. Gibot, S. 2005. Clinical review: role of triggering receptor expressed on myeloid cells-1 during sepsis. Crit. Care 9: 485-489.
5. Carninci, P., Kasukawa, T., Katayama, S., Gough, J., Frith, M.C., Maeda, N., Oyama, R., Ravasi, T., Lenhard, B. 2005. The transcriptional landscape of the mammalian genome. Science 309: 1559-1563.
6. Watarai, H., Sekine, E., Inoue, S., Nakagawa, R., Kaisho, T. and Taniguchi, M. 2008. PDC-TREM, a plasmacytoid dendritic cell-specific receptor, is responsible for augmented production of type I interferon. Proc. Natl. Acad. Sci. USA 105: 2993-2998.

CHROMOSOMAL LOCATION

Genetic locus: A530064D06Rik (mouse) mapping to 17 C.

PRODUCT

PDC-TREM siRNA (m) is a pool of 2 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 PDC-TREM shRNA Plasmid (m): sc-152122-SH and PDC-TREM shRNA (m) Lentiviral Particles: sc-152122-V as alternate gene silencing products.

For independent verification of PDC-TREM (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-152122A and sc-152122B.

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

PDC-TREM siRNA (m) is recommended for the inhibition of PDC-TREM 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 PDC-TREM gene expression knockdown using RT-PCR Primer: PDC-TREM (m)-PR: sc-152122-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.