



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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](https://www.linkedin.com/company/szaboscandic) 

IL-1Rrp2 siRNA (m): sc-146215

BACKGROUND

IL-1Rrp2 (interleukin-1 receptor-related protein 2) or IL1RL2, is a member of the interleukin-1/Toll-like receptor family and is highly expressed in brain, skin and mammary and mucosal epithelial cells. IL-1Rrp2 exhibits 42% homology with interleukin-1 type 1 receptor and 26% homology with interleukin-1 type 2 receptor. IL-1Rrp2 mediates NF κ B activation, MAPK activation and inflammatory responses triggered by ligands IL-1F6, IL-1F8 and IL-1F9. Signalling via IL-1Rrp2 also requires IL-1RAcP (interleukin-1 accessory protein). IL-1Rrp2 may play a role in immune defense in the GI tract and skin. IL-1Rrp2 may also be involved in the pathogenesis of rheumatoid arthritis (RA).

REFERENCES

1. Lovenberg, T.W., et al. 1996. Cloning of a cDNA encoding a novel interleukin-1 receptor related protein (IL 1R-rp2). *J. Neuroimmunol.* 70: 113-122.
2. Dale, M., et al. 1999. Interleukin-1 receptor cluster: gene organization of IL1R2, IL1R1, IL1RL2 (IL-1Rrp2), IL1RL1 (T1/ST2), and IL18R1 (IL-1Rrp) on human chromosome 2q. *Genomics* 57: 177-179.
3. Debets, R., et al. 2001. Two novel IL-1 family members, IL-1 δ and IL-1 ϵ , function as an antagonist and agonist of NF κ B activation through the orphan IL-1 receptor-related protein 2. *J. Immunol.* 167: 1440-1446.
4. Berglöf, E., et al. 2003. IL-1Rrp2 expression and IL-1F9 (IL-1H1) actions in brain cells. *J. Neuroimmunol.* 139: 36-43.
5. Towne, J.E., et al. 2004. Interleukin (IL)-1F6, IL-1F8, and IL-1F9 signal through IL-1Rrp2 and IL-1RAcP to activate the pathway leading to NF κ B and MAPKs. *J. Biol. Chem.* 279: 13677-13688.
6. Andre, R., et al. 2005. Regulation of expression of the novel IL-1 receptor family members in the mouse brain. *J. Neurochem.* 95: 324-330.
7. Wang, P., et al. 2005. The interleukin-1-related cytokine IL-1F8 is expressed in glial cells, but fails to induce IL-1 β signalling responses. *Cytokine* 29: 245-250.

CHROMOSOMAL LOCATION

Genetic locus: IL1RL2 (mouse) mapping to 1 B.

PRODUCT

IL-1Rrp2 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see IL-1Rrp2 shRNA Plasmid (m): sc-146215-SH and IL-1Rrp2 shRNA (m) Lentiviral Particles: sc-146215-V as alternate gene silencing products.

For independent verification of IL-1Rrp2 (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-146215A, sc-146215B and sc-146215C.

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 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

IL-1Rrp2 siRNA (m) is recommended for the inhibition of IL-1Rrp2 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 μ M in 66 μ l. 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 IL-1Rrp2 gene expression knockdown using RT-PCR Primer: IL-1Rrp2 (m)-PR: sc-146215-PR (20 μ l, 452 bp). 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.