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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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HLA-DRB1 Pre-design Chimera RNAi

Catalog # : H00003123-R02

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens major histocompatibility complex, class II, DR beta 1 (HLA-DRB1), mRNA.

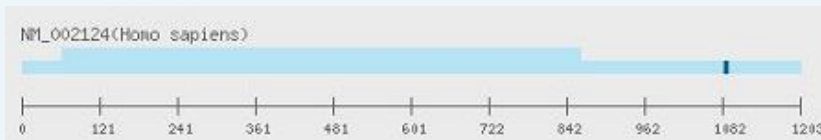
Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_002124

Storage Instruction: Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

Note: Position of the Chimera RNAi.



Application Image

RNAi Knockdown

Publication Reference

- dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. *Nucleic Acids Res.* 2005 Jul 1;33(Web Server issue):W589-91.
- Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. *Nucleic Acids Res.* 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
- Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. *Nucleic Acids Res.* 2004 Feb 9;32(3):936-48. Print 2004.
- siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. *Nucleic Acids Res.* 2004 Jul 1;32(Web Server issue):W124-9.

Applications

RNAi Knockdown

Gene Information

Entrez GeneID: 3123

Gene Name: HLA-DRB1

Gene Alias: DRB1, FLJ76359, HLA-DR1B, HLA-DRB, HLA-DRB1*, SS1

Gene major histocompatibility complex, class II, DR beta 1

Description:

Omim ID: [126200](#), [142857](#), [181000](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa. It is encoded by 6 exons. Exon one encodes the leader peptide; exons 2 and 3 encode the two extracellular domains; exon 4 encodes the transmembrane domain; and exon 5 encodes the cytoplasmic tail. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Hundreds of DRB1 alleles have been described and typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. DRB1 is expressed at a level five times higher than its paralogs DRB3, DRB4 and DRB5. DRB1 is present in all individuals. Allelic variants of DRB1 are linked with either none or one of the genes DRB3, DRB4 and DRB5. There are 4 related pseudogenes: DRB2, DRB6, DRB7, DRB8 and DRB9. [provided by RefSeq]

Other Designations: HLA class II antigen beta chain,HLA class II histocompatibility antigen, DR-1 beta chain,HLA-DR-beta 1,MHC class II HLA-DR beta 1 chain,MHC class II HLA-DR-beta cell surface glycoprotein,MHC class II antigen HLA-DR13,human leucocyte antigen DRB1,leucocyte

Gene Pathway

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[Autoimmune thyroid disease](#) [Cell adhesion molecules \(CAMs\)](#) [Graft-versus-host disease](#)
[Hematopoietic cell lineage](#) [Systemic lupus erythematosus](#) [Type I diabetes mellitus](#)

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