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HLA-C Pre-design Chimera RNAi

Catalog # : H00003107-R02

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens major histocompatibility complex, class I, C (HLA-C), mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_002117

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: [3107](#)

Gene Name: HLA-C

Gene Alias: D6S204, FLJ27082, HLA-Cw, HLA-Cw12, HLA-JY3, HLC-C, PSORS1

Gene major histocompatibility complex, class I, C

Description:

Omim ID: [142840](#), [177900](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: HLA-C belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domain, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Over one hundred HLA-C alleles have been described [provided by RefSeq]

Other Designations: HLA class I antigen,HLA class I heavy chain,HLA class I histocompatibility antigen, C alpha chain,HLA-C (Cw*1201),HLA-Cw*050x,MHC class I HLA-C,MHC class I HLA-Cw*0803,MHC class I antigen HLA-C,MHC class I antigen heavy chain HLA-C,MHC class I protein HLA

Gene Pathway

[Allograft rejection](#) [Antigen processing and presentation](#) [Autoimmune thyroid disease](#) [Cell adhesion molecules \(CAMs\)](#) [Endocytosis](#) [Graft-versus-host disease](#) [Natural killer cell mediated cytotoxicity](#) [Type I diabetes mellitus](#)

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