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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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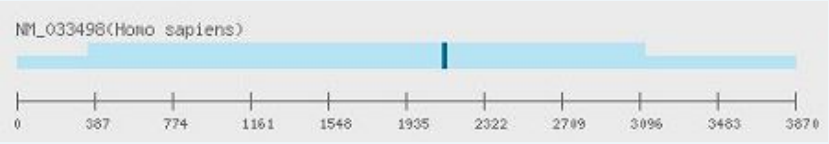
HK1 Validated Chimera RNAi

Catalog # : H00003098-R01V　　**規格 :** [10 nmol] [20 nmol]

List All

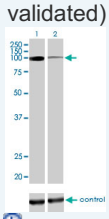
Specification

Product Description:	Homo sapiens hexokinase 1 (HK1), nuclear gene encoding mitochondrial protein, transcript variant 5, mRNA.
Reactivity:	Human
Supplied Product:	DEPC water
Target Refseq:	NM_033498
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 (Antibody validated)



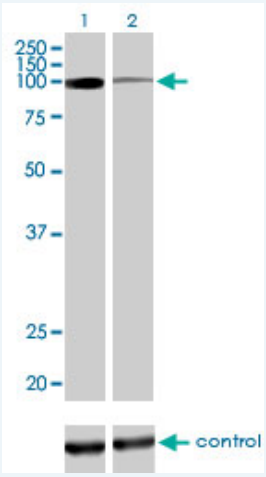
enlarge

Publication Reference

1. 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.
2. 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.
3. 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.
4. 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 (Antibody validated)



Western blot analysis of HK1 over-expressed 293 cell line, cotransfected with HK1 Validated Chimera RNAi (Cat # H00003098-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with HK1 monoclonal antibody (M01), clone 5G9 (Cat # H00003098-M01). GAPDH (36.1 kDa) used as specificity and loading control.

Protocol Download

Gene Information

Entrez GeneID: 3098

Gene Name: HK1

Gene Alias: HK1-ta,HK1-tb,HK1-tc,HKI,HXK1

Gene Description: hexokinase 1

Omim ID: 142600

Gene Ontology: Hyperlink

Gene Summary: Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in five transcript variants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus; the remainder of the protein is identical among all the isoforms. A sixth transcript variant has been described, but due to the presence of several stop codons, it is not thought to encode a protein. [provided by RefSeq

Other Designations: OTTHUMP00000019725,brain form hexokinase,glycolytic enzyme

Gene Pathway

Amino sugar and nucleotide sugar metabolism
Biosynthesis of alkaloids derived from histidine and purine
Biosynthesis of alkaloids derived from ornithine, lysine and nicotinic acid
Biosynthesis of alkaloids derived from shikimate pathway
Biosynthesis of alkaloids derived from terpenoid and polyketide
Biosynthesis of phenylpropanoids Biosynthesis of plant hormones
Biosynthesis of terpenoids and steroids Fructose and mannose metabolism
Galactose metabolism Glycolysis / Gluconeogenesis Insulin signaling pathway
Metabolic pathways Starch and sucrose metabolism Streptomycin biosynthesis
Type II diabetes mellitus

Related Disease

Alzheimer Disease Attention Deficit Disorder with Hyperactivity Diabetes Mellitus, Type 2

Diseases in Twins Genetic Predisposition to Disease Obesity Tobacco Use Disorder