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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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BRCA1 Pre-design Chimera RNAi

Catalog # : H00000672-R04

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-delta2-10, mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_007297

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

Note: Position of the Chimera RNAi.
The related RNAi products listed below were designed from different accession number but sharing the same RNAi sequence.



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: [672](#)

Gene Name: BRCA1

Gene Alias: BRCA1, BRCC1, IRIS, PSCP, RNF53

Gene Description: breast cancer 1, early onset

Omim ID: [113705](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as the BRCA1-associated genome surveillance complex (BASC). This gene product associates with RNA polymerase II, and through the C-terminal domain, also interacts with histone deacetylase complexes. This protein thus plays a role in transcription, DNA repair of double-stranded breaks, and recombination. Mutations in this gene are responsible for approximately 40% of inherited breast cancers and more than 80% of inherited breast and ovarian cancers. Alternative splicing plays a role in modulating the subcellular localization and physiological function of this gene. Many alternatively spliced transcript variants, some of which are disease-associated mutations, have been described for this gene, but the full-length natures of only some of these variants has been described. A related pseudogene, which is also located on chromosome 17, has been identified. [provided by RefSeq]

Other Designations: BRCA1/BRCA2-containing complex, subunit 1, breast and ovarian cancer susceptibility protein 1

Gene Pathway

[Ubiquitin mediated proteolysis](#)

Related Disease

[Abdominal Neoplasms](#) [Abortion, Habitual](#) [Abortion, Spontaneous](#) [Adenocarcinoma Adenocarcinoma](#), [Clear Cell Adenocarcinoma](#), [Mucinous Adenoma](#), [Pleomorphic Anticipation](#), [Genetic Anxiety Disorders](#) [Ataxia Telangiectasia](#) [Ataxia telangiectasia Awareness](#) [Bloom Syndrome](#) [Body Image](#) [Body Weight](#) [Brain Neoplasms](#) [Breast cancer](#) [Breast Neoplasms](#) [Breast Neoplasms, Male](#)

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