

Recombinant Full Length Human BRCA1 Protein, GST-tagged

Cat. No. BRCA1-3782HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human BRCA1 full-length ORF (NP_009237.1, 1 a.a. - 59 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source In Vitro Cell Free System

ProteinLength 59 amino acids

Description

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.

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Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	33.1 kDa
AA Sequence	MDLSALRVEEVQNVINAMQKILECPICLELIKEPVSTKCDHIFCKVLLCCPSWSTVVRS
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	BRCA1 breast cancer 1, early onset [Homo sapiens]
Official Symbol	BRCA1
Synonyms	BRCA1; breast cancer 1, early onset; breast cancer type 1 susceptibility protein; BRCA1/BRCA2 containing complex; subunit 1; BRCC1; PPP1R53; protein phosphatase 1; regulatory subunit 53; RNF53; RING finger protein 53; BRCA1/BRCA2-containing complex, subunit 1; protein phosphatase 1, regulatory subunit 53; breast and ovarian cancer susceptibility protein 1; breast and ovarian cancer susceptibility protein 1; IRIS; PSCP; BRCAI; PNCA4; BROVCA1;
Gene ID	672
mRNA Refseq	NM_007294
Protein Refseq	NP_009225

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MIM	113705
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UniProt ID	P38398
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