

Recombinant Human BRCC3, His-tagged

Cat. No. BRCC3-10280H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BRCC3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	14-316a.a.
Description	This gene encodes a subunit of the BRCA1-BRCA2-containing complex (BRCC), which is an E3 ubiquitin ligase. This complex plays a role in the DNA damage response, where it is responsible for the stable accumulation of BRCA1 at DNA break sites. The component encoded by this gene can specifically cleave Lys 63-linked polyubiquitin chains, and it regulates the abundance of these polyubiquitin chains in chromatin. The loss of this gene results in abnormal angiogenesis and is associated with syndromic moyamoya, a cerebrovascular angiopathy. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 5.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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GENE INFORMATION

Gene Name	BRCC3 BRCA1/BRCA2-containing complex, subunit 3 [Homo sapiens]
Official Symbol	BRCC3
Synonyms	BRCC3; BRCA1/BRCA2-containing complex, subunit 3; chromosome X open reading frame 53 , CXorf53; lys-63-specific deubiquitinase BRCC36; BRCC36; C6.1A; BRISC complex subunit BRCC36; BRCA1-A complex subunit BRCC36; BRCA1/BRCA2-containing complex subunit 36; CXorf53; RP11-143H17.2;
Gene ID	79184
mRNA Refseq	NM_001018055
Protein Refseq	NP_001018065
MIM	300617
UniProt ID	P46736
Chromosome Location	Xq28
Function	enzyme regulator activity; metal ion binding; metallopeptidase activity; peptidase activity; polyubiquitin binding; protein binding; ubiquitin thiolesterase activity; ubiquitin-specific protease activity;

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