

Recombinant Human BRCC3 Protein (M1-E316), GST tagged

Cat. No. BRCC3-0682H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GST-TEV-BRCC36(M1-E316) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M1-E316
Description	Metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains. Does not have activity toward 'Lys-48'-linked polyubiquitin chains. Component of the BRCA1-A complex, a complex that specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). In the BRCA1-A complex, it specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX, antagonizing the RNF8-dependent ubiquitination at double-strand breaks (DSBs). Catalytic subunit of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates. Mediates the specific 'Lys-63'-specific deubiquitination associated with the COP9 signalosome complex (CSN), via the interaction of the BRISC complex with the CSN complex. The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1. Plays a role in interferon signaling via its role in the deubiquitination of the interferon receptor IFNAR1; deubiquitination increases IFNAR1 activity by enhancing its stability and cell surface expression. Down-regulates the response to bacterial lipopolysaccharide

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	(LPS) via its role in IFNAR1 deubiquitination. Deubiquitinates HDAC1 and PWWP2B leading to their stabilization.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	BRCC3 BRCA1/BRCA2-containing complex, subunit 3 [Homo sapiens (human)]
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

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mRNA Refseq	NM_001018055
Protein Refseq	NP_001018065
MIM	300617
UniProt ID	P46736

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