BRISC and BRCA1-A Complex Member 1 (BABAM1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	BRISC and BRCA1-A complex member 1 (BABAM1), Recombinant Protein
Full Product Name	Recombinant Human BRISC and BRCA1-A complex member 1 (BABAM1)
Product Gene Name	BABAM1 recombinant protein
Product Synonym Gene Name	BABAM1
Sequence	MEVAEPSSPT EEEEEEEEHS AEPRPRTRSN PEGAEDRAVG AQASVGSRSE GEGEAASADD GSLNTSGAGP KSWQVPPPAP EVQIRTPRVN CPEKVIICLD LSEEMSLPKL ESFNGSKTNA LNVSQKMIEM FVRTKHKIDK SHEFALVVVN DDTAWLSGLT SDPRELCSCL YDLETASCST FNLEGLFSLI QQKTELPVTE NVQTIPPPYV VRTILVYSRP PCQPQFSLTE PMKKMFQCPY FFFDVVYIHN GTEEKEEEMS WKDMFAFMGS LDTKGTSYKY EVALAGPALE LHNCMAKLLA HPLQRPCQSH ASYSLLEEED EAIEVEATV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	18,621 Da
Sequence Positions	1-329, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	612766
3D Structure	ModBase 3D Structure for Q9NWV8
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BABAM1 recombinant protein	MBS1386398 is a recombinant protein targeting BABAM1. Also known as Recombinant Human BRISC and BRCA1-A complex member 1 (BABAM1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of BABAM1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BABAM1. It may not necessarily be applicable to this product.

NCBI GI #	75709194
NCBI GeneID	29086
NCBI Accession #	NP_001028721.1

UniProt Primary Accession #	Q9NWV8
UniProt Secondary Accession #	Q6FIA0; Q9P018; A8MQT0; B4DRY9; B4DVR1
UniProt Related Accession #	Q9NWV8
GenBank Nucleotide #	NM_001033549.2
NCBI Official Full Name	BRISC and BRCA1-A complex member 1 isoform 1
NCBI Official Synonym Full Names	BRISC and BRCA1 A complex member 1
NCBI Official Symbol	BABAM1
NCBI Official Synonym Symbols	NBA1; HSPC142; MERIT40; C19orf62
UniProt Protein Name	BRISC and BRCA1-A complex member 1
UniProt Synonym Protein Names	Mediator of RAP80 interactions and targeting subunit of 40 kDa
Protein Family	BRISC and BRCA1-A complex
UniProt Gene Name	BABAM1
NCBI Protein Information	BRISC and BRCA1-A complex member 1
UniProt Comments for BABAM1	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). The BRCA1-A complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX. In the BRCA1-A complex, it is required for the complex integrity and its localization at DSBs. Component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates (PubMed:24075985, PubMed:26195665). In these 2 complexes, it is probably required to maintain the stability of BABAM2 and help the 'Lys-63'-linked deubiquitinase activity mediated by BRCC3/BRCC36 component. The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1 (PubMed:26195665). 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 (PubMed:24075985). Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:24075985).
Research Articles on BABAM1	**1.** Genetic variants in NBA1 may be an important genetic determinant of triple-negative breast cancer susceptibility.
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