ABRAXAS1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	ABRAXAS1, Blocking Peptide
Full Product Name	ABRAXAS1 Peptide - C-terminal region
Product Gene Name	ABRAXAS1 blocking peptide
Product Synonym Gene Name	ABRA1; CCDC98; FAM175A; ABRAXAS1
Sequence	Synthetic peptide located within the following region: TPQIIKHKAL DLDDRWQFKR SRLLDTQDKR SKADTGSSNQ DKASKMSSPE
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	ABRAXAS1 peptide (MBS3241630) is used for blocking the activity of ABRAXAS1 antibody (MBS3216730)
Molecular Weight	47 kDa
OMIM	phenotype 611143
Product Categories/Family for ABRAXAS1 blocking peptide	Peptide
Related Product Information for ABRAXAS1 blocking peptide	This gene encodes a protein that binds to the C-terminal repeats of breast cancer 1 (BRCA1) through a phospho-SXXF motif. The encoded protein recruits ubiquitin interaction motif containing 1 protein to BRCA1 protein and is required for DNA damage resistance, DNA repair, and cell cycle checkpoint control. Pseudogenes of this gene are found on chromosomes 3 and 8. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of ABRAXAS1 blocking peptide 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.
Searchable Terms for ABRAXAS1 purchase	MBS3241630 is a blocking peptide targeting ABRAXAS1. Also known as ABRAXAS1 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABRAXAS1. It may not necessarily be applicable to this product.

NCBI GI #	109148531
NCBI GeneID	84142
NCBI Accession #	NP_620775
UniProt Primary Accession #	Q6UWZ7
UniProt Related Accession #	Q6UWZ7
GenBank Nucleotide #	NM_139076.2
NCBI Official Full Name	BRCA1-A complex subunit Abraxas 1 isoform 1
NCBI Official Synonym Full Names	abraxas 1, BRCA1 A complex subunit
NCBI Official Symbol	ABRAXAS1

NCBI Official Synonym Symbols	ABRA1; CCDC98; FAM175A
UniProt Protein Name	BRCA1-A complex subunit Abraxas
UniProt Synonym Protein Names	Coiled-coil domain-containing protein 98; Protein FAM175A
UniProt Gene Name	FAM175A
UniProt Synonym Gene Names	ABRA1; CCDC98
UniProt Entry Name	F175A_HUMAN
NCBI Protein Information	BRCA1-A complex subunit Abraxas 1
UniProt Comments for ABRAXAS1	Abraxas: 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 acts as a central scaffold protein that assembles the various components of the BRCA1-A complex and mediates the recruitment of BRCA1. Belongs to the FAM175 family. Abraxas subfamily. Protein type: DNA repair, damage Chromosomal Location of Human Ortholog: 4q21.23 Cellular Component: nucleus Molecular Function: protein binding; polyubiquitin binding Biological Process: positive regulation of DNA repair; double-strand break repair; chromatin modification; response to ionizing radiation; G2/M transition DNA damage checkpoint
Research Articles on ABRAXAS1	**1.** Our data also suggest how ataxia telangiectasia mutated (ATM)-dependent BRCA1 dimerization may stabilize self-association of the entire BRCA1-A complex.
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