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HSPC142 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8573c

Specification

HSPC142 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9NWV8

HSPC142 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 29086

Other Names
BRISC and BRCA1-A complex member 1, Mediator of RAP80 interactions and targeting subunit of 40 kDa, New component of the BRCA1-A complex, BABAM1, C19orf62, MERIT40, NBA1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8573c was selected from the Center region of human HSPC142. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HSPC142 Antibody (Center) Blocking Peptide - Protein Information

Name BABAM1

Function
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).

Cellular Location
Cytoplasm. Nucleus Note=Localizes at sites of DNA damage at double-strand breaks (DSBs)

HSPC142 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

HSPC142 Antibody (Center) Blocking Peptide - Images

HSPC142 Antibody (Center) Blocking Peptide - Background

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. Probably also plays a role as a component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin. In these 2 complexes, it is probably required to maintain the stability of BRE/BRCC45 and help the 'Lys-63'-linked deubiquitinase activity mediated by BRCC3/BRCC36. component.

HSPC142 Antibody (Center) Blocking Peptide - References

Shao,G., et.al., Genes Dev. 23 (6), 740-754 (2009)Ewing,R.M., et.al., Mol. Syst. Biol. 3, 89 (2007)