

UIMC1 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP20602c

Specification

UIMC1 Blocking Peptide (C-term) - Product Information

Primary Accession

[Q96RL1](#)**UIMC1 Blocking Peptide (C-term) - Additional Information**

Gene ID 51720

Other Names

BRCA1-A complex subunit RAP80, Receptor-associated protein 80, Retinoid X receptor-interacting protein 110, Ubiquitin interaction motif-containing protein 1, UIMC1, RAP80, RXRIP110

Target/Specificity

The synthetic peptide sequence is selected from aa 587-601 of HUMAN UIMC1

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.

UIMC1 Blocking Peptide (C-term) - Protein Information

Name UIMC1

Synonyms RAP80, RXRIP110

Function

Ubiquitin-binding protein (PubMed:24627472). Specifically recognizes and binds 'Lys-63'-linked ubiquitin (PubMed:19328070, Ref.38). Plays a central role in the BRCA1-A complex by specifically binding '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. Also weakly binds monoubiquitin but with much less affinity than 'Lys-63'-linked ubiquitin. May interact with monoubiquitinated histones H2A and H2B; the relevance of such results is however unclear in vivo. Does not bind Lys-48'-linked ubiquitin. May indirectly act as a transcriptional repressor by inhibiting the interaction of NR6A1 with the corepressor NCOR1.

Cellular Location

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

Tissue Location

Expressed in testis, ovary, thymus and heart. Expressed in germ cells of the testis.

UIMC1 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

UIMC1 Blocking Peptide (C-term) - Images**UIMC1 Blocking Peptide (C-term) - Background**

Ubiquitin-binding protein that specifically recognizes and binds 'Lys-63'-linked ubiquitin. Plays a central role in the BRCA1-A complex by specifically binding '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. Also weakly binds monoubiquitin but with much less affinity than 'Lys-63'-linked ubiquitin. May interact with monoubiquitinated histones H2A and H2B; the relevance of such results is however unclear in vivo. Does not bind Lys-48'-linked ubiquitin. May indirectly act as a transcriptional repressor by inhibiting the interaction of NR6A1 with the corepressor NCOR1.

UIMC1 Blocking Peptide (C-term) - References

Yan Z.,et al.J. Biol. Chem. 277:32379-32388(2002).
Peng Y.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
Xu X.,et al.Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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