

# UIMC1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20602c

## Product Information

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Application	WB, FC, E
Primary Accession	<a href="#">Q96RL1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB48354
Calculated MW	79727

## Additional Information

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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	This UIMC1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 567-601 amino acids from the C-terminal region of human UIMC1.
Dilution	WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	UIMC1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	UIMC1
Synonyms	RAP80, RXRIP110
Function	Ubiquitin-binding protein (PubMed: <a href="#">24627472</a> ). Specifically recognizes and binds 'Lys-63'-linked ubiquitin (PubMed: <a href="#">19328070</a> , 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.

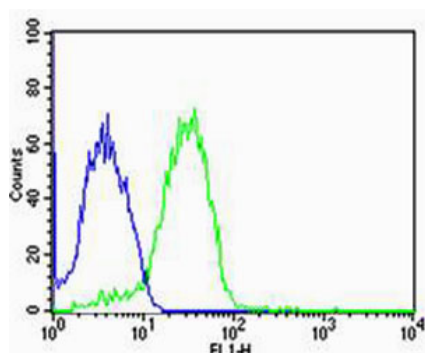
## Background

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.

## References

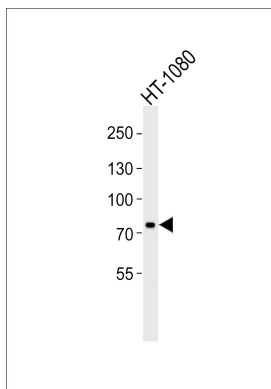
Yan Z.,et al.J. Biol. Chem. 277:32379-32388(2002).  
Peng Y.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.  
Xu X.,et al.Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

## Images



Flow cytometric analysis of MCF-7 cells using UIMC1 Antibody (C-term)(green, Cat#AP20602c) compared to an isotype control of rabbit IgG(blue). AP20602c was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

Western blot analysis of lysate from HT-1080 cell line, using UIMC1 Antibody (C-term)(Cat. # AP20602c). AP20602c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.