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# UIMC1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20602c

## Product Information

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| **Application** | WB, FC, E |
| **Primary Accession** | Q96RL1 |
| **Reactivity** | Human |
| **Predicted** | Rabbit |
| **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: 24627472). Specifically recognizes and |

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|---|---|
| | 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. |

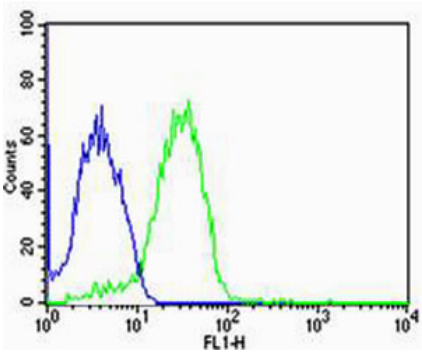
## Background

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

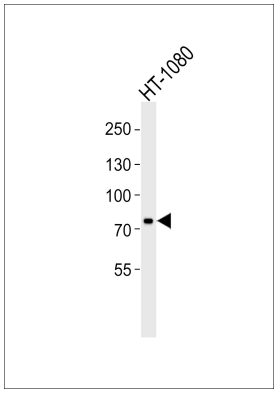

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Peng Y.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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## Images




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 lgG 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'.