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UIMC1 / RAP80 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12406

Specification

UIMC1 / RAP80 Antibody (C-Terminus) - Product Information

Application	**IF, IHC, WB**
Primary Accession	Q96RL1
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**80kDa KDa**

UIMC1 / RAP80 Antibody (C-Terminus) - 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
a 17 amino acid peptide from near the carboxy terminus of human RAP80

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
UIMC1 / RAP80 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

UIMC1 / RAP80 Antibody (C-Terminus) - 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)

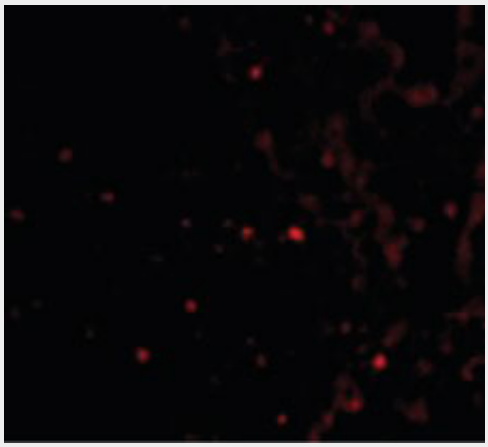
Tissue Location
Expressed in testis, ovary, thymus and heart. Expressed in germ cells of the testis.

UIMC1 / RAP80 Antibody (C-Terminus) - Protocols

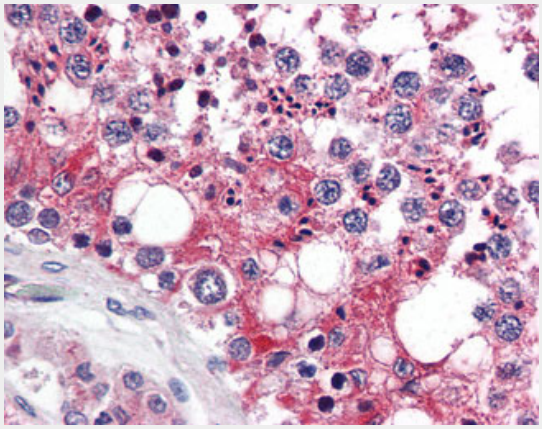
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

UIMC1 / RAP80 Antibody (C-Terminus) - Images

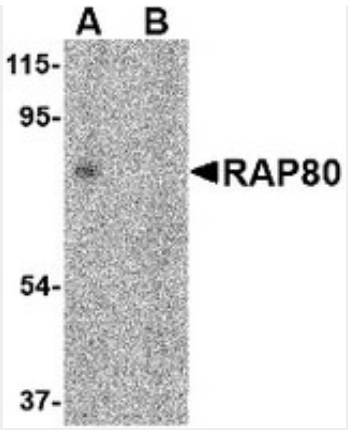


Immunofluorescence of RAP80 in Human Spleen cells with RAP80 antibody at 20 ug/ml.



Anti-UIMC1 / RAP80 antibody IHC of human testis.

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Immunohistochemistry of RAP80 in human spleen tissue with RAP80 antibody at 2.5 µg/ml.

UIMC1 / RAP80 Antibody (C-Terminus) - 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 / RAP80 Antibody (C-Terminus) - 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).