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RAP80 Antibody

Rabbit mAb
Catalog # AP91550

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	Q96RL1
Reactivity	Human
Clonality	Monoclonal
Other Names	BRCA1-A complex subunit RAP80; RAP80; Receptor associated protein 80; RIP110; Rxrip110; UIMC1; X2HRIP110;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	79727

Additional Information

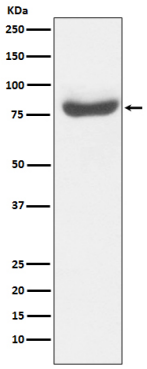
Dilution	WB 1:1000~1:5000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human RAP80
Description	Ubiquitin-binding protein that specifically recognizes and binds 'Lys-63'-linked ubiquitin. Plays a central role in the BRCA1-A complex 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).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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.

Images



Western blot analysis of RAP80 expression in 293T cell lysate.

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