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Anti-RAP80 Monoclonal Antibody

Catalog # ABO14525

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	Q96RL1
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-RAP80 Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human.

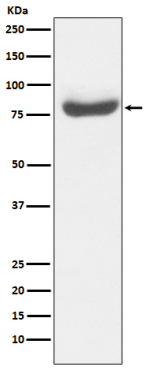
Additional Information

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
Calculated MW	79727
Application Details	WB 1:1000-1:5000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: ADCH-21
Immunogen	A synthesized peptide derived from human RAP80 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).
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

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'.