

BAP1抗体试剂(免疫组织化学)

BAP1 Catalog # AD80566

Product Information

Application	IHC
Primary Accession	<u>Q92560</u>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Clone Names	poly
Calculated MW	80362

Additional Information

Gene ID Other Names	8314 Ubiquitin carboxyl-terminal hydrolase BAP1, 3.4.19.12, BRCA1-associated protein 1, Cerebral protein 6 {ECO:0000303 Ref.2}, BAP1 {ECO:0000303 PubMed:9528852, ECO:0000312 HGNC:HGNC:950}
Dilution	IHC~~1:100~500
Storage	Maintain refrigerated at 2-8°C.

Protein Information

Name	BAP1 {ECO:0000303 PubMed:9528852, ECO:0000312 HGNC:HGNC:950}
Function	Deubiquitinating enzyme that plays a key role in chromatin by mediating deubiquitination of histone H2A and HCFC1 (PubMed: <u>12485996</u> , PubMed: <u>18757409</u> , PubMed: <u>20436459</u> , PubMed: <u>25451922</u> , PubMed: <u>35051358</u>). Catalytic component of the polycomb repressive deubiquitinase (PR-DUB) complex, a complex that specifically mediates deubiquitination of histone H2A monoubiquitinated at 'Lys-120' (H2AK119ub1) (PubMed: <u>20436459</u> , PubMed: <u>25451922</u> , PubMed: <u>30664650</u> , PubMed: <u>35051358</u>). Does not deubiquitinate monoubiquitinated histone H2B (PubMed: <u>20436459</u> , PubMed: <u>30664650</u>). The PR-DUB complex is an epigenetic regulator of gene expression and acts as a transcriptional coactivator, affecting genes involved in development, cell communication, signaling, cell proliferation and cell viability (PubMed: <u>20805357</u> , PubMed: <u>30664650</u> , PubMed: <u>36180891</u>). Antagonizes PRC1 mediated H2AK119ub1 monoubiquitination (PubMed: <u>30664650</u>). As part of the PR-DUB complex, associates with chromatin enriched in histone marks H3K4me1, H3K4me3, and H3K27Ac, but not in H3K27me3 (PubMed: <u>36180891</u>). Acts as a regulator of cell growth by mediating deubiquitination of HCFC1 N- terminal

	and C-terminal chains, with some specificity toward 'Lys-48'- linked polyubiquitin chains compared to 'Lys-63'-linked polyubiquitin chains (PubMed: <u>19188440</u> , PubMed: <u>19815555</u>). Deubiquitination of HCFC1 does not lead to increase stability of HCFC1 (PubMed: <u>19188440</u> , PubMed: <u>19815555</u>). Interferes with the BRCA1 and BARD1 heterodimer activity by inhibiting their ability to mediate ubiquitination and autoubiquitination (PubMed: <u>19117993</u>). It however does not mediate deubiquitination of BRCA1 and BARD1 (PubMed: <u>19117993</u>). Able to mediate autodeubiquitination via intramolecular interactions to counteract monoubiquitination at the nuclear localization signal (NLS), thereby protecting it from cytoplasmic sequestration (PubMed: <u>24703950</u>). Negatively regulates epithelial-mesenchymal transition (EMT) of trophoblast stem cells during placental development by regulating genes involved in epithelial cell integrity, cell adhesion and cytoskeletal organization (PubMed: <u>34170818</u>).
Cellular Location	Cytoplasm. Nucleus. Chromosome. Note=Mainly nuclear (PubMed:24703950, PubMed:30664650). Binds to chromatin (PubMed:30664650). Localizes to the cytoplasm when monoubiquitinated by the E2/E3 hybrid ubiquitin- protein ligase UBE2O (PubMed:24703950). Recruitment to chromatin is dependent on ASXL1/2/3 and recruitment to specific genes on FOXK1/2 (By similarity). Nuclear localization is redundantly mediated by the importin and transportin systems; TNPO1/transportin-1 is the major mediator of nuclear localization (PubMed:35446349) {ECO:0000250 UniProtKB:Q99PU7, ECO:0000269 PubMed:24703950, ECO:0000269 PubMed:30664650, ECO:0000269 PubMed:35446349}
Tissue Location	Highly expressed in testis, placenta and ovary (PubMed:9528852). Expressed in breast (PubMed:9528852). levels in the placenta increase over the course of pregnancy (PubMed:34170818)

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