

**PHH3**  
**Rabbit Polyclonal Antibody (Mab)**  
**Catalog # APA553**

## Specification

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### PHH3 - Product Information

Application	IHC
Primary Accession	<a href="#">O92560</a>
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80362 Da

### PHH3 - Additional Information

Gene ID	8314
Gene Name	BAP1 {ECO:0000303 PubMed:9528852, ECO:0000312 HGNC:HGNC:950}

#### Other Names

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}

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	PHH3 is for research use only and not for use in diagnostic or therapeutic procedures.

### PHH3 - 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: <a href="#">12485996</a> , PubMed: <a href="#">18757409</a> , PubMed: <a href="#">20436459</a> , PubMed: <a href="#">25451922</a> ). Catalytic component of the PR-DUB complex, a complex that specifically mediates deubiquitination of histone H2A monoubiquitinated at 'Lys-119' (H2AK119ub1) (PubMed: <a href="#">20436459</a> , PubMed: <a href="#">25451922</a> ). Does not deubiquitinate monoubiquitinated histone H2B (PubMed: <a href="#">20436459</a> ). Acts as a regulator of cell growth by mediating deubiquitination of HCFC1 N- terminal and
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Cellular Location	<p>C-terminal chains, with some specificity toward 'Lys-48'- linked polyubiquitin chains compared to 'Lys-63'-linked polyubiquitin chains (PubMed:<a href="#">19188440</a>, PubMed:<a href="#">19815555</a>). Deubiquitination of HCFC1 does not lead to increase stability of HCFC1 (PubMed:<a href="#">19188440</a>, PubMed:<a href="#">19815555</a>). Interferes with the BRCA1 and BARD1 heterodimer activity by inhibiting their ability to mediate ubiquitination and autoubiquitination (PubMed:<a href="#">19117993</a>). It however does not mediate deubiquitination of BRCA1 and BARD1 (PubMed:<a href="#">19117993</a>). Able to mediate autodeubiquitination via intramolecular interactions to counteract monoubiquitination at the nuclear localization signal (NLS), thereby protecting it from cytoplasmic sequestration (PubMed:<a href="#">24703950</a>). Acts as a tumor suppressor (PubMed:<a href="#">9528852</a>). Cytoplasm. Nucleus. Note=Mainly nuclear. Binds to chromatin Localizes to the cytoplasm when monoubiquitinated by the E2/E3 hybrid ubiquitin-protein ligase UBE2O (PubMed:<a href="#">24703950</a>)</p>
Tissue Location	<p>Highly expressed in testis, placenta and ovary. Expressed in breast.</p>

### PHH3 - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PHH3 - Images