

**Phospho-PRC1 (Thr481) Rabbit mAb**  
**Catalog # AP75944****Specification**

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**Phospho-PRC1 (Thr481) Rabbit mAb - Product Information**

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	<a href="#">O43663</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	71607

**Phospho-PRC1 (Thr481) Rabbit mAb - Additional Information****Gene ID** 9055**Other Names**  
PRC1**Dilution**  
WB~~1/500-1/1000  
IHC-P~~N/A  
IHC-F~~N/A  
ICC~~N/A**Format**  
Liquid**Phospho-PRC1 (Thr481) Rabbit mAb - Protein Information****Name** PRC1 ([HGNC:9341](#))**Function**

Key regulator of cytokinesis that cross-links antiparrallel microtubules at an average distance of 35 nM. Essential for controlling the spatiotemporal formation of the midzone and successful cytokinesis. Required for KIF14 localization to the central spindle and midbody. Required to recruit PLK1 to the spindle. Stimulates PLK1 phosphorylation of RACGAP1 to allow recruitment of ECT2 to the central spindle. Acts as an oncogene for promoting bladder cancer cells proliferation, apoptosis inhibition and carcinogenic progression (PubMed:<a href="http://www.uniprot.org/citations/17409436" target="\_blank">17409436</a>).

**Cellular Location**

Nucleus. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole. Midbody. Chromosome  
Note=Colocalized with KIF20B in the nucleus of bladder carcinoma cells at the interphase.  
Colocalized with KIF20B in bladder carcinoma cells at prophase, metaphase, early anaphase, at the midzone in late anaphase and at the contractile ring in telophase (PubMed:17409436)  
Predominantly localized to the nucleus of interphase cells. During mitosis becomes associated with the mitotic spindle poles and localizes with the cell midbody during cytokinesis. Co-localizes with

PRC1 in early mitosis and at the spindle midzone from anaphase B to telophase  
(PubMed:15297875, PubMed:15625105).

**Tissue Location**

Overexpressed in bladder cancer cells (PubMed:17409436).

**Phospho-PRC1 (Thr481) Rabbit mAb - 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](#)

**Phospho-PRC1 (Thr481) Rabbit mAb - Images**

