

# PRC1 Antibody

Rabbit mAb Catalog # AP90071

## Specification

# PRC1 Antibody - Product Information

Application	
Primary Accession	
Reactivity	
Clonality	
Other Names	
ASE1; PRC1; Protein regulating cytokinesis 1;	

IsotypeRabbit IgGHostRabbitCalculated MW71607 Da

## PRC1 Antibody - Additional Information

Purification	
Immunogen	

Description

Storage Condition and Buffer

## PRC1 Antibody - 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

WB, IHC, FC, ICC, IP

Rat, Human, Mouse

Affinity-chromatography

central spindle and midbody.

freeze / thaw cycle.

A synthesized peptide derived from human

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

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

043663

PRC1

**Monoclonal** 

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)

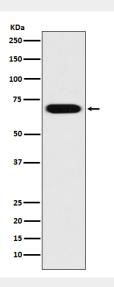
### **Tissue Location**

Overexpressed in bladder cancer cells (PubMed:17409436).

## PRC1 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>
- **PRC1 Antibody Images**



Western blot analysis of PRC1 expression in HeLa cell lysate.