

Datasheet for 600-401-DS4**PRC1 Antibody****Overview**

Description:	Anti-PRC1 (RABBIT) Antibody - 600-401-DS4
Item No.:	600-401-DS4
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	PRC1 (Protein Regulator of Cytokinesis 1) is a key regulator of cytokinesis and has been identified as a substrate for several cyclin-dependent kinases (CDKs). High levels of PRC1 expression occurs during S and G2/M and drops dramatically after mitosis exit and G1 entry. It is located in the nucleus during interphase and binds to the midzone of mitotic spindles during anaphase and is localized to the cell midbody during cytokinesis. Depletion of PRC1 has been shown to prevent cellular cleavage, but it has no effect on nuclear division, demonstrating the importance of PRC1 in mitosis.
Synonyms:	PRC1 Antibody, ASE1, Protein regulator of cytokinesis 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PRC1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PRC1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the internal region of human PRC1.

Purity/Specificity: Anti-PRC1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three alternatively spliced transcript variants encoding distinct isoforms have been observed.

Relevant Links:

- [UniProtKB - O43663](#)
- [GeneID - 9055](#)
- [NCBI - NP_003972](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-PRC1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 72 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5000 - 1:10000

IF: 2.5 µg/mL

IHC: 2.5 µg/mL

WB: 0.5-1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

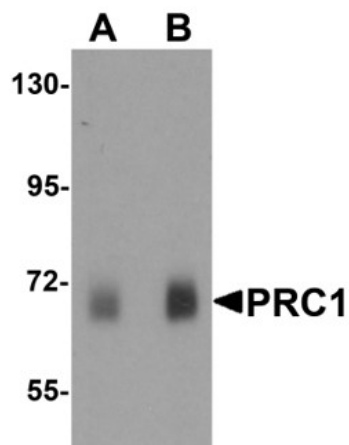
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

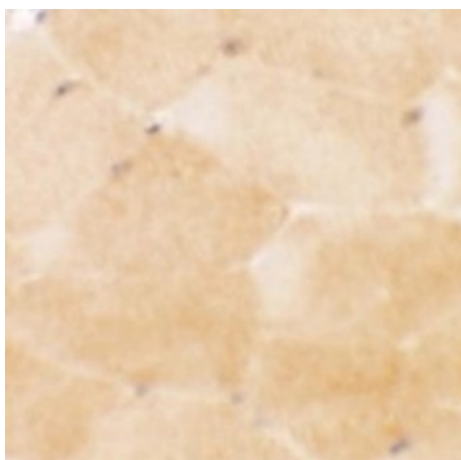
Expiration date is one (1) year from date of receipt.

Images**Western Blot**

Western blot analysis of PRC1.

Load: human skeletal muscle tissue lysate.

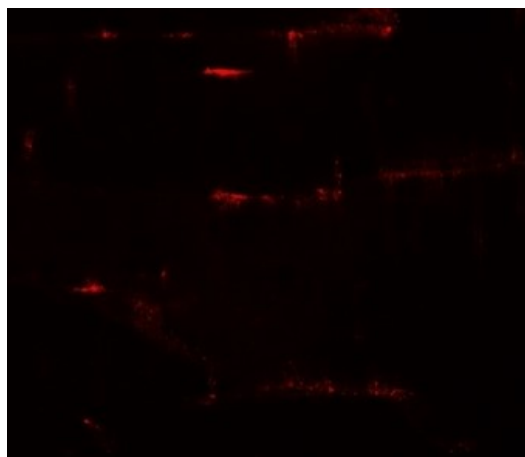
Primary Antibody: PRC1 antibody at (A) 0.5 $\mu\text{g/ml}$ and (B) 1 $\mu\text{g/mL}$.

**Immunohistochemistry**

Immunohistochemistry of PRC1.

Tissue: mouse skeletal muscle tissue.

Primary Antibody: PRC1 antibody at 2.5 $\mu\text{g/mL}$.

**Immunofluorescence Microscopy**

Immunofluorescence of PRC1.

Tissue: mouse skeletal muscle tissue.

Primary Antibody: PRC1 antibody at 20 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.