For Research Use Only

## PRC1 Polyclonal antibody

Catalog Number:15617-1-AP

Featured Product

19 Publications

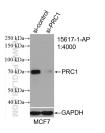


Basic Information	Catalog Number: 15617-1-AP	GenBank Accession Number: BC003138	Purification Method: Antigen affinity purification					
	Size:	GenelD (NCBI):	Recommended Dilutions:					
	600 µg/ml	Source:UNIPROT ID:IP 0.5-4Rabbit043663proteinIsotype:Full Name:IHC 1:5IgGprotein regulator of cytokinesis 1	WB 1:1000-1:8000 IP 0.5-4.0 ug for 1.0-3.0 mg of total					
	Rabbit Isotype: IgG Immunogen Catalog Number:		Protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800					
				Applications	Tested Applications:	Positive	Positive Controls: WB : MCF-7 cells, HEK-293 cells, HeLa cells, K-562 cells, Raji cells, SH-SY5Y cells, C6 cells	
					WB, IHC, IF/ICC, IP, ELISA Cited Applications:			
					WB, IHC, CoIP, IF	IP : HEK-2		
Species Specificity:		nan breast cancer tissue,						
human, rat Cited Species:	IF/ICC : I	lepG2 cells,						
human, mouse								
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0								
Background Information	PRC1 (protein regulator of cytokinesis 1) is a microtubule-bundling protein that is involved in cytokinesis. Depletior of PRC1 leads to failed cytokinesis. PRC1 is located in the nucleus during interphase, and becomes associated with mitotic spindles in a highly dynamic manner during mitosis, and localizes to the cell mid-body during cytokinesis. PRC1 is a substrate of CDK1 and it was assumed that CDK1 phosphorylation blocks its activity during metaphase. Three isoforms of PRC1 exist due to the alternative splicing, with predictive molecular weight of 71.6 kDa, 70.2 kDa and 66.2 kDa, respectively. The dual bands between 66-72 kDa detected by this antibody may represent different forms of PRC1.							
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Notable Publications	Three isoforms of PRC1 exist due and 66.2 kDa, respectively. The d forms of PRC1.	to the alternative splicing, with predi ual bands between 66-72 kDa detecte Pubmed ID Journal 34531368 Nat Commun	ation blocks its activity during metaphase. ctive molecular weight of 71.6 kDa, 70.2 kDa d by this antibody may represent different					
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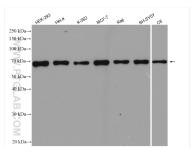
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

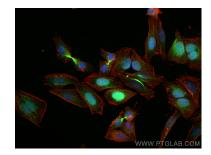
## Selected Validation Data



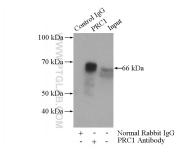
WB result of PRC1 antibody (15617-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRC1 transfected MCF-7 cells.



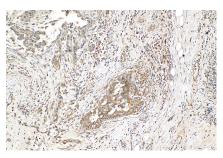
Various lysates were subjected to SDS PAGE followed by western blot with 15617-1-AP (PRC1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



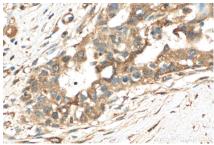
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PRC1 antibody (15617-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



IP result of anti-PRC1 (IP:15617-1-AP, 4ug; Detection:15617-1-AP 1:300) with HEK-293 cells lysate 1480ug.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 15617-1-AP (PRC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 15617-1-AP (PRC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).