

For Research Use Only

PRC1 Recombinant antibody

Catalog Number: 84041-2-RR



Basic Information

Catalog Number: 84041-2-RR	GenBank Accession Number: BC003138	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 9055	CloneNo.: 241216H2
Source: Rabbit	UNIPROT ID: O43663	Recommended Dilutions: IF/ICC 1:200-1:800
Isotype: IgG	Full Name: protein regulator of cytokinesis 1	
Immunogen Catalog Number: AG8028	Calculated MW: 72 kDa	

Applications

Tested Applications: IF/ICC, ELISA	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: human	

Background Information

PRC1 (protein regulator of cytokinesis 1) is a microtubule-bundling protein that is involved in cytokinesis. Depletion 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.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

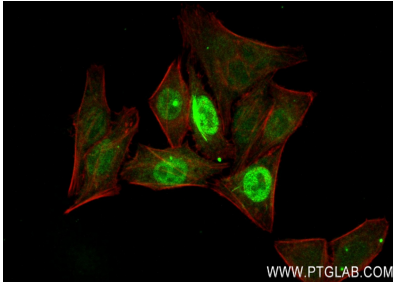
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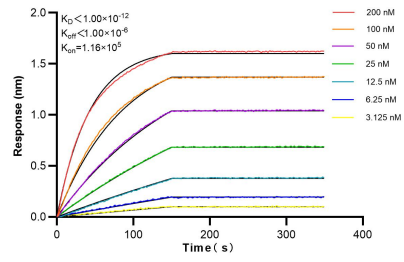
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PRC1 antibody (84041-2-RR, Clone: 241216H2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Bilayer interferometry (BLI) kinetic assays of 84041-2-RR against Human PRC1 were performed. The affinity constant is below 1 pM.