

For Research Use Only

CDCA2 Recombinant monoclonal antibody

Catalog Number: 86379-1-RR



Basic Information

Catalog Number:	86379-1-RR	GenBank Accession Number:	BC036214	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	157313	CloneNo.:	250980D8
Source:	Rabbit	UNIPROT ID:	Q69YH5	Recommended Dilutions:	WB: 1:500-1:2000 IHC: 1:200-1:800 IF/ICC: 1:500-1:2000
Isotype:	IgG	Full Name:	cell division cycle associated 2		
Immunogen Catalog Number:	AG11967	Calculated MW:	113 kDa		
		Observed MW:	140 kDa		

Applications

Tested Applications:	WB, IHC, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	human	WB:	HepG2 cells, HeLa cells, Jurkat cells
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC:	Hepatocellular carcinoma tissue,
		IF/ICC:	HepG2 cells,

Background Information

Cell division cycle associated 2(CDCA2) is a nuclear protein that is a specific regulatory subunit for protein phosphatase 1 γ (PP1 γ). CDCA2 is a candidate factor involved in preparing mitotic chromatin for the transition to interphase, and controls PP1 γ -dependent essential DDR regulation. CDCA2 regulates the DNA damage response (DDR) in cell cycle. In addition, CDCA2 modulates phosphorylation of major mitotic histone H3 in a PP1 γ -dependent manner.

Storage

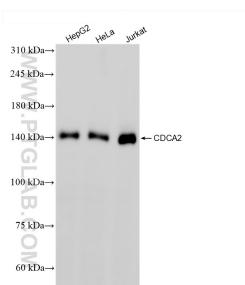
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

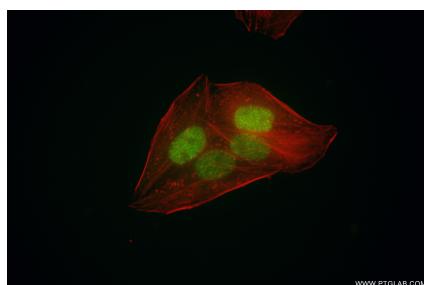
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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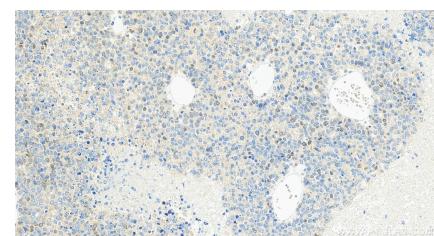
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86379-1-RR (CDCA2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

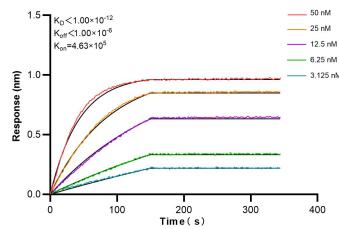


Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CDCA2 antibody (86379-1-RR, Clone: 250980D8) at dilution of 1:1000 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded Hepatocellular carcinoma tissue slide using 86379-1-RR (CDCA2 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded Hepatocellular carcinoma tissue slide using 86379-1-RR (CDCA2 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLL) kinetic assays of 86379-1-RR against Human CDCA2 were performed. The affinity constant is below 1 pM.