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NCAPH Polyclonal antibody Catalog Number:11515-1-AP Featured Product 1

Featured Product 15 Publications



Basic Information	Catalog Number: 11515-1-AP	log Number: GenBank Accession Number: BC024211 GeneID (NCBI): 23397 UNIPROT ID: Q15003 Full Name: non-SMC condensin I complex, subunit H Calculated MW: 741 aa, 83 kDa		Purification Method: Antigen affinity purification						
	Size:			Recommended Dilutions: WB: 1:1000-1:4000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:20-1:200 FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension						
	150ul , Concentration: 600 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG2076									
					Observed MW: 83-100 kDa					
					Applications	Tested Applications:		Positive Con	rols:	
						WB, IHC, FC (Intra), IP, ELISA		WB : HEK-293 cells, Jurkat cells, K-562 cells, HeLa cells		
						Cited Applications:				
		WB, IHC, IF		IHC : human		zolon cancer tissue.				
Species Specificity: human, mouse, rat		FC (Intra) : H	EK-293 cells,							
Cited Species:										
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	Non-SMC condensin I complex subunit H (NCAPH) is one of the three non-SMC subunits in condensin I, which belongs to a recently defined superfamily of proteins termed kleisins. Another two non-SMC subunits, CAP-D2 and CAP-G, share a highly degenerate repeating motif known as HEAT repeat. Some studies show that each subunit is essential for viability and plays an important role in mitotic chromosome architecture and segregation. In recent years, researchers found that the high expression of NCAPH was associated with poor prognosis in patients with non-small cell lung cancer and prostate cancer. Downregulation of NCAPH inhibited the proliferation, migration, and invasion of several cancer cells significantly. Moreover, NCAPH was involved in the regulation of mature chromosome condensation and DNA damage. These data suggest that NCAPH may be a key carcinogen involved in the development and progression of human malignant tumors. (PMID: 28300828, PMID: 33311486)									
Notable Publications	Author Pul	bmed ID Jou	rnal	Application						
	Chengjun Sun 31	523845 Mol	Carcinog	WB,IHC						
	Takuya Ogura 34	768935 Int.	J Mol Sci	WB,IHC						
	Masatoshi Takagi 294	487178 J Ce	ell Sci	WB						
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	er shipment. % glycerol, pH7.3								
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage								
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com		This product is o Group brand an other manufact	exclusively available under Proteintech d is not available to purchase from any urer.						

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11515-1-AP (NCAPH antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of NCAPH antibody (11515-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NCAPH transfected HEK-293 cells.



IP result of anti-NCAPH (IP:11515-1-AP, 3ug; Detection:11515-1-AP 1:800) with HeLa cells lysate 3000ug.



Immunohistochemical analysis of paraffinembedded human colon cancer using 11515-1-AP (NCAPH antibody) at dilution of 1:50 (under 10x lens).



1x10^6 HEK-293 cells were intracellularly stained with 0.4 ug NCAPH Polyclonal antibody (11515-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).