

For Research Use Only

CENPF Polyclonal antibody

Catalog Number: 28568-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number: 28568-1-AP	GenBank Accession Number: NM_016343	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop;	GeneID (NCBI): 1063	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:250-1:1000 IF 1:200-1:800
Source: Rabbit	Full Name: centromere protein F, 350/400ka (mitosin)	
Isotype: IgG	Calculated MW: 368 kDa	
Immunogen Catalog Number: AG29665	Observed MW: 350 kDa	

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
Human, mouse, rat

Cited Species:
human

Positive Controls:

WB: HeLa cells, HepG2 cells

IHC: rat small intestine tissue, human lung cancer tissue, mouse liver tissue, mouse kidney tissue, human pancreas cancer tissue, mouse small intestine tissue, rat skin tissue, rat testis tissue

IF: HeLa cells,

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

CENPF, also named as mitosin and centromere protein F (PMID: 22912832), belongs to centromere protein F family. During the cell cycle, CENPF localizes in multiple cellular structures including the nuclear envelope in late G2/early prophase and kinetochores throughout mitosis (PMID: 30198378). CENPF is required for kinetochore function and chromosome segregation in mitosis and required for kinetochore localization of dynein, LIS1, NDE1 and NDEL1 (PMID: 17600710)(PMID: 7542657). It regulates recycling of the plasma membrane by acting as a link between recycling vesicles and the microtubule network through its association with STX4 and SNAP25. Acts as a potential inhibitor of pocket protein-mediated cellular processes during development by regulating the activity of RB proteins during cell division and proliferation (PMID: 26125848). The calculated molecular weight of CENPF is ~358 kDa and CENPF can be detected as ~367 kDa (PMID: 7542657).

Notable Publications

Author	Pubmed ID	Journal	Application
Peipei Li	37920441	Oncol Lett	IHC,IF
Yanfen Zheng	37816727	Nat Commun	WB
Ji Zhang	36915885	Transl Androl Urol	WB,IHC

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

*** 20ul sizes contain 0.1% BSA

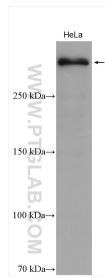
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

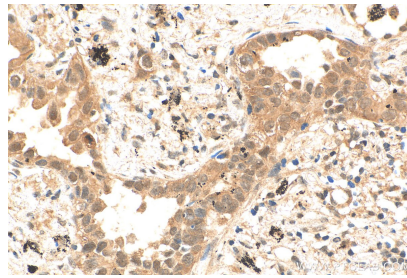
E: proteintech@ptglab.com
W: ptglab.com

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

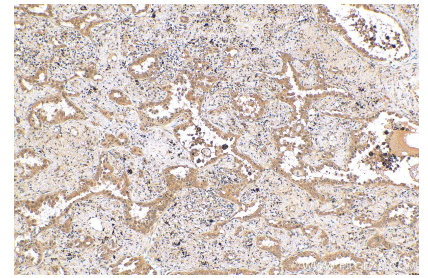
Selected Validation Data



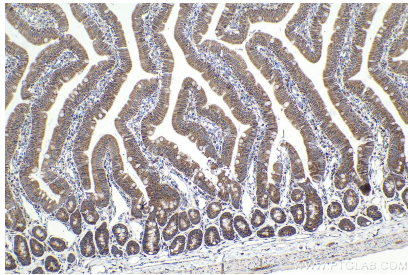
HeLa cells were subjected to SDS PAGE followed by western blot with 28568-1-AP (CENPF antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



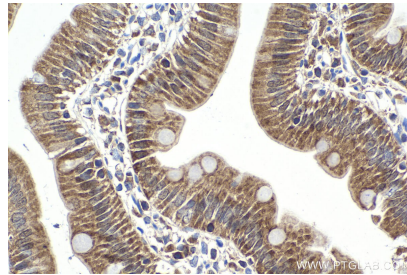
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 28568-1-AP (CENPF antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



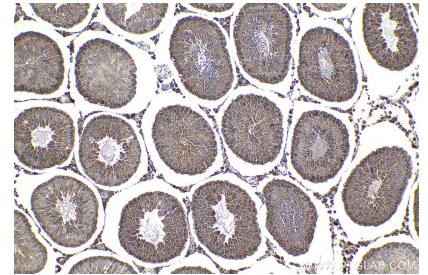
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 28568-1-AP (CENPF antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



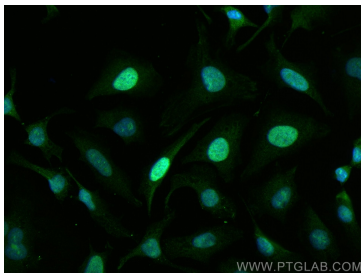
Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using 28568-1-AP (CENPF antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



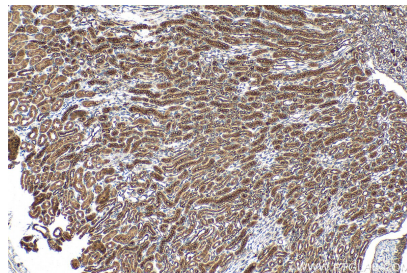
Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using 28568-1-AP (CENPF antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



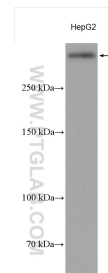
Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 28568-1-AP (CENPF antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CENPF antibody (28568-1-AP) at dilution of 1:400 and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 28568-1-AP (CENPF antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HepG2 cells were subjected to SDS PAGE followed by western blot with 28568-1-AP (CENPF antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.