

For Research Use Only

CHAF1A Polyclonal antibody

Catalog Number:17037-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number: 17037-1-AP	GenBank Accession Number: BC067093	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 ug/ml by Nanodrop;	GeneID (NCBI): 10036	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
Source: Rabbit	UNIPROT ID: Q13111	
Isotype: IgG	Full Name: chromatin assembly factor 1, subunit A (p150)	
Immunogen Catalog Number: AG10536	Calculated MW: 956 aa, 107 kDa	
	Observed MW: 150 kDa	

Applications

Tested Applications: WB, IP, IHC, ELISA	Positive Controls: WB : Jurkat cells, HeLa cells IP : Jurkat cells, IHC : human cervix tissue,
Cited Applications: WB, IF, IHC, ChIP	
Species Specificity: human, mouse	
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

Chromatin assembly factor 1 (CAF1) is the only histone chaperone known to assemble histones H3 and H4 onto newly synthesized DNA both in vitro and in vivo [PMID:17065558]. The 938 amino acid multidomain p150 (CHAF1A) binds via its C-terminal third to p60, which is an essential step for nucleosome assembly because knocking down either subunit disrupts the activity [PMID:14519857]. In addition, CAF1 facilitates DNA synthesis depending on the binding of the N-terminal 31 residues of p150 to the proliferating cell nuclear antigen (PCNA), which acts as a sliding clamp to stimulate the processivity of DNA polymerase [PMID:10648606]. CHAF1A regulates the formation of heterochromatin in mammalian cells during replication and in plants it maintains the transcription of certain subsets of genes. Furthermore, CHAF1A exists in a chromatin-remodeling complex WINAC, which coactivates ligand-induced transactivation function of the vitamin D receptor [PMID:12837248]. CHAF1A protein exists some phosphorylation sites, which may affect its theoretical molecular weight when tested. And a 150 kDa band was recognized (PMID:27445493).

Notable Publications

Author	Pubmed ID	Journal	Application
Nasim A Begum	22843687	J Biol Chem	WB
Takashi Ishiuchi	33169018	Nat Struct Mol Biol	WB
Xiancai Ma	33739466	EMBO J	ChIP

Storage

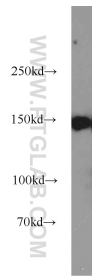
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

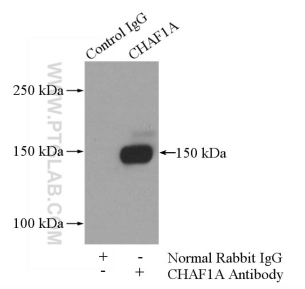
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

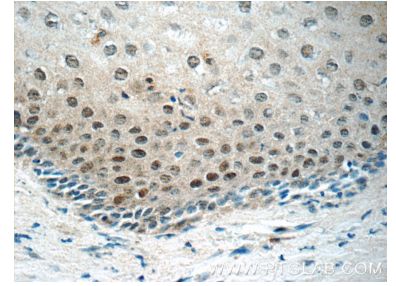
Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 17037-1-AP (CHAF1A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-CHAF1A (IP:17037-1-AP, 4 μ g; Detection:17037-1-AP 1:1000) with Jurkat cells lysate 2400 μ g.



Immunohistochemical analysis of paraffin-embedded human cervix tissue slide using 17037-1-AP (CHAF1A Antibody) at dilution of 1:50 (under 40 \times lens).