

For Research Use Only

CHAF1A Recombinant monoclonal antibody, PBS Only

Catalog Number: 88451-1-PBS



Basic Information

Catalog Number:	88451-1-PBS	GenBank Accession Number:	BC067093	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	10036	CloneNo.:	260852B11
Isotype:	IgG	UNIPROT ID:	Q13111		
Immunogen Catalog Number:	AG10536	Full Name:	chromatin assembly factor 1, subunit A (p150)		
		Calculated MW:	956 aa, 107 kDa		
		Observed MW:	150 kDa		

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

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).

Storage

Storage:
Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

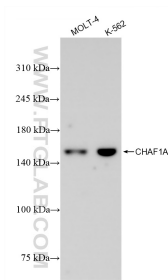
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88451-1-RR (CHAF1A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88451-1-PBS in a different storage buffer formulation.