

CHAF1A Recombinant monoclonal antibody

Catalog Number: 88451-1-RR

Basic Information

Catalog Number:

88451-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10536

GenBank Accession Number:

BC067093

GeneID (NCBI):

10036

UNIPROT ID:

Q13111

Full Name:

chromatin assembly factor 1, subunit A (p150)

Calculated MW:

956 aa, 107 kDa

Observed MW:

150 kDa

Purification Method:

Protein A purification

CloneNo.:

260852B11

Recommended Dilutions:

WB: 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB: MOLT-4 cells, K-562 cells

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:

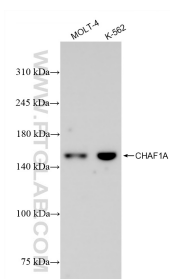
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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.