

CENPA Rabbit mAb

Catalog # AP74853

Product Information

Application	WB
Primary Accession	P49450
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	15991

Additional Information

Gene ID	1058
Other Names	CENPA
Dilution	WB~1/500-1/1000
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

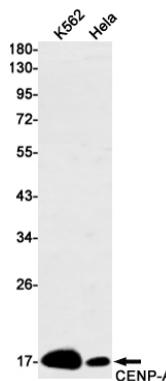
Protein Information

Name	CENPA
Function	Histone H3-like nucleosomal protein that is specifically found in centromeric nucleosomes (PubMed: 11756469 , PubMed: 14667408 , PubMed: 15282608 , PubMed: 15475964 , PubMed: 15702419 , PubMed: 17651496 , PubMed: 19114591 , PubMed: 20739937 , PubMed: 27499292 , PubMed: 7962047 , PubMed: 9024683). Replaces conventional H3 in the nucleosome core of centromeric chromatin that serves as an assembly site for the inner kinetochore (PubMed: 18072184). The presence of CENPA subtly modifies the nucleosome structure and the way DNA is wrapped around the nucleosome and gives rise to protruding DNA ends that are less well- ordered and rigid compared to nucleosomes containing histone H3 (PubMed: 26878239 , PubMed: 27499292). May serve as an epigenetic mark that propagates centromere identity through replication and cell division (PubMed: 15282608 , PubMed: 15475964 , PubMed: 20739937 , PubMed: 21478274 , PubMed: 26878239). Required for recruitment and assembly of kinetochore proteins, and as a consequence required for progress through mitosis, chromosome segregation and cytokinesis (PubMed: 11756469 , PubMed: 14667408 , PubMed: 18072184 , PubMed: 23818633 , PubMed: 25556658 , PubMed: 27499292).

Cellular Location

Nucleus. Chromosome, centromere. Note=Localizes exclusively to sites of kinetochore assembly in centromeres. Occupies a compact domain at the inner kinetochore plate stretching across 2 thirds of the length of the constriction but encompassing only one third of the constriction width and height (PubMed:19114591) Phosphorylation at Ser-68 during early mitosis abolishes association with chromatin and centromeres and results in dispersed nuclear location (PubMed:25556658).

Images



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