

Datasheet for ABIN3043810

anti-CENPA antibody (AA 1-140)





_				
()	ve.	rv/	101	Λ

Quantity:	100 μg
Target:	CENPA
Binding Specificity:	AA 1-140
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CENPA antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-CENPA Antibody Picoband®
Immunogen:	E.coli-derived human CENPA recombinant protein (Position: M1-G140). Human CENPA shares 71.6% amino acid (aa) sequence identity with mouse CENPA.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-CENPA Antibody Picoband® (ABIN3043810). Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

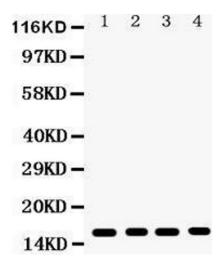
Target:	CENPA	
Alternative Name:	CENPA (CENPA Products)	
Background:	Synonyms: Histone H3-like centromeric protein A,Centromere autoantigen A,Centromere	
	protein A,CENP-A,CENPA,	
	Tissue Specificity: Ubiquitous.	
	Background: Centromeres are the differentiated chromosomal domains that specify the mitotic	
	behavior of chromosomes. CENPA encodes a centromere protein which contains a histone H3	
	related histone fold domain that is required for targeting to the centromere. And CENPA is	
	proposed to be a component of a modified nucleosome or nucleosome-like structure in which it	
	replaces 1 or both copies of conventional histone H3 in the (H3-H4)2 tetrameric core of the	
	nucleosome particle. Alternative splicing results in multiple transcript variants encoding distinct	
	isoforms. In higher eukaryotes, the recruitment of CENP-A nucleosomes to existing	
	centromeres is an epigenetic process, independent of the underlying DNA sequence. In	
	S.pombe, de novo recruitment of the CENP-A to the centromere is believed to be controlled by	
	"centromeric" heterochromatin surrounding the centromere, and by an RNAi mechanism. The	
	RNAi is cut to form siRNA, this complexes with the protein Chp1, which then binds the	
	centromeric heterochromatin. This helps recruit other proteins, ultimately resulting in a protein	
	complex that forms cohesin between two sister chromatids at the centromeric	
	heterochromatin. This cohesin is believed to be essential in replacing the centromere H3 with	
	CENP-A. CENP-A is one of the epigenetic changes that is believed to distinguish centromeric	
	DNA from other DNA. Once the CENP-A has been added, the centromere becomes self-	
	propagating, and the surrounding heterochromatin/RNAi mechanism is no longer necessary.	
	Sequence Similarities: Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase	
	family. CDC2/CDKX subfamily.	
Molecular Weight:	16 kDa	
Gene ID:	1058	
UniProt:	P49450	
Pathways:	Chromatin Binding, Maintenance of Protein Location	
Application Details		
Application Notes:	Western blot, 0.1-0.5 μg/mL, Human, Rat	
	1. Chueh AC, Wong LH, Wong N, Choo KH (January 2005). "Variable and hierarchical size	
	distribution of L1-retroelement-enriched CENP-A clusters within a functional human	

Application Details

Application Details		
	neocentromere". Hum. Mol. Genet. 14 (1): 85-93. 2. Folco HD, Pidoux AL, Urano T, Allshire RC	
	(January 2008). "Heterochromatin and RNAi are required to establish CENP-A chromatin at	
	centromeres". Science 319 (5859): 94-7.	
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Daganatitutian	Add 0.0 mal of distillad water will yield a concentration of F00 way (mal	

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1.