

Rabbit anti-Human CENP-A Polyclonal Antibody | anti-CENPA antibody

CENP-A (pSer18) antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50446	Rabbit	Human	Western Blot, Immunofluorescence

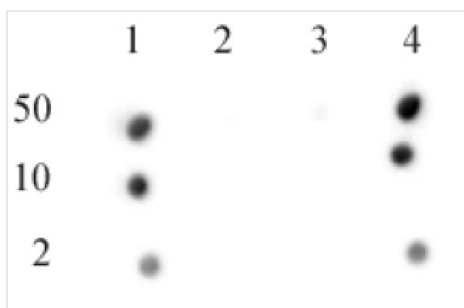
PRODUCT SYNONYMS

CENP-A; Polyclonal Antibody; CENP-A (pSer18) antibody; RABBIT ANTI HUMAN CENP-A (pSer18); anti-CENPA antibody

PRODUCT SPECIFICATIONS

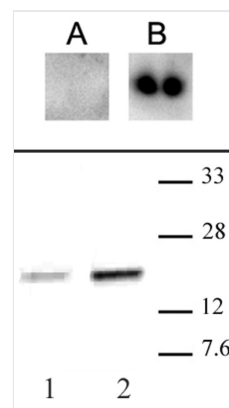
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antiserum to human CENP-A (pSer18) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Form/Format	Purified IgG - liquid Phosphate buffered saline 0.035% Sodium Azide (NaN ₃), 30% Glycerol
Applicable Applications for anti-CENPA antibody	WB (Western Blot), IF (Immunofluorescence)
Immunogen	A synthetic peptide containing phosphorylated serine 16 and 18 of human CENP-A
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

IMAGES



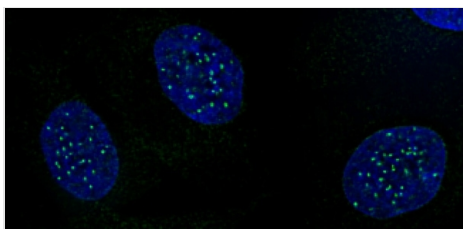
DB (Dot Blot)

Dot blot testing of CENP-A (pSer18) antibody. Peptides corresponding to CENP-A pSer16 and pSer18 (lane 1), CENP-A unmodified (lane 2), CENP-A pSer16 (lane 3) and CENP-A pSer18 (lane 4) were spotted in various amounts onto a PVDF membrane and probed with AAA50446 at a 1/750 dilution.



WB (Western Blot)

Top: Western blot analysis of recombinant CENP-A (20 ng) probed with CENP-A (pSer18) antibody (AAA50446; A) at a 1/1000 dilution or with anti-centromere antibody (B). Recombinant CENP-A was not detected by AAA50446. Bottom: Western blot analysis of HeLa nuclear cell extract (20 ug) probed with CENP-A (pSer18) antibody (AAA50446) at a 1/250 dilution or an anti-centromere antibody (lane 2).



IF (Immunofluorescence)

Immunofluorescence staining of HeLa cells with CENP-A (pSer18) antibody (AAA50446; green). DAPI was used as nuclear counterstain (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-CENPA antibody

Rabbit anti human CENP-A (pSer18) antibody recognizes centromere protein A when phosphorylated at serine 18. CENP-A is a histone H3 variant which replaces one or both canonical H3 histones in a subset of nucleosomes within centromeric chromatin and epigenetically determines the position of the centromere on each chromosome, and where kinetochore assembly and sister chromatid cohesion occurs during mitosis (Fachinetti et al. 2013) (Blower et al. 2002). CENP-A has been shown to interact directly with the inner kinetochore through CENP-C and CENP-N. This interaction allows microtubules to accurately segregate chromosomes during mitosis (Kixomoeller et al. 2020) (Yan et al. 2019). Phosphorylation of CENP-A on serine 18 is thought to play an important role in the segregation of chromosomes during mitosis (Kixomoeller et al. 2020) (Zhang et al. 2017). Rabbit anti human CENP-A (pSer18) antibody shows minimal cross-reactivity with CENP-A that has been phosphorylated at serine 16.

NCBI AND UNIPROT INFORMATION

NCBI GI #	109637779
NCBI GeneID	1058
NCBI Accession #	NP_001035891.1
NCBI GenBank Nucleotide #	NM_001042426.1
UniProt Accession #	P49450; Q53T74; Q9BWW2; D6W544
Molecular Weight	15,991 Da
NCBI Official Full Name	histone H3-like centromeric protein A isoform b
NCBI Official Synonym Full Names	centromere protein A
NCBI Official Symbol	CENPA
NCBI Official Synonym Symbols	CenH3; CENP-A
NCBI Protein Information	histone H3-like centromeric protein A; centromere autoantigen A; centromere protein A, 17kDa; centromere-specific histone
UniProt Protein Name	Histone H3-like centromeric protein A
UniProt Gene Name	CENPA
UniProt Synonym Gene Names	CENP-A
UniProt Entry Name	CENPA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cenp-a-antibody-western-blot-immunofluorescence-elisa/50446>