Datasheet: AHP3033

BATCH NUMBER 160769

Description:	RABBIT ANTI HUMAN CENP-A (pSer18)
Specificity:	CENP-A (pSer18)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/100 - 1/500
Immunofluorescence	▪			1/100

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Product Form

Purified IgG - liquid

Antiserum Preparation

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.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.035% Sodium Azide (NaN$_3$)
30% Glycerol

Carrier Free

Yes

Immunogen

A synthetic peptide containing phosphorylated serine 16 and 18 of human CENP-A

External Database Links	**UniProt:**
	P49450 Related reagents
	Entrez Gene:
	1058 CENPA Related reagents

Specificity

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.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10049 available at:
https://www.bio-rad-antibodies.com/SDS/AHP3033
10049

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP

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