

## Datasheet: AHP3033

<b>Description:</b>	RABBIT ANTI HUMAN CENP-A (pSer18)
<b>Specificity:</b>	CENP-A (pSer18)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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<sub>3</sub>)  
30% Glycerol

**Carrier Free** Yes

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

**External Database Links**

**UniProt:**

**Entrez Gene:**

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**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.

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**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.

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**Guarantee**      12 months from date of despatch

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**Health And Safety Information**      Material Safety Datasheet documentation #10049 available at: <https://www.bio-rad-antibodies.com/SDS/AHP3033>  
10049

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**Regulatory**      For research purposes only

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## 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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