

## Datasheet: AHP3045

**BATCH NUMBER 160740**

<b>Description:</b>	RABBIT ANTI HUMAN HISTONE H2A.X (pTyr142)
<b>Specificity:</b>	HISTONE H2A.X (pTyr142)
<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	▪			1/500 - 1/1000

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 histone H2A.X (pTyr142) 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** 0.035% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 30% Glycerol

**Carrier Free** Yes

**Immunogen** A peptide containing phosphorylated tyrosine 142 of human histone H2A.X

**External Database Links** **UniProt:**

[P16104](#)   [Related reagents](#)

**Entrez Gene:**

[3014](#)   H2AFX   [Related reagents](#)

---

**Synonyms**            H2AX

---

**Specificity**            **Rabbit anti Human H2A.X (pTyr142) antibody** recognizes histone H2A.X when phosphorylated at tyrosine 142.

Histone H2A.X is a member of the histone H2A family, one of the four core histones making up the nucleosome core particle. Histone H2A variant H2A.X is a variant of histone H2A that regulates the interaction of MDC1 (mediator of DNA damage checkpoint protein 1), a DNA repair protein, to the sites of DNA damage. Phosphorylation of histone H2A.X at tyrosine 142 is implicated in a number of biological processes, including DNA repair. K-Ras-ERK1/2 down-regulates phosphorylation of H2A.X at the site of tyrosine 142 by increasing degradation of WSTF and contributes to the progression of gastric cancer ([Dong \*et al.\* 2019](#)).

Wide species cross-reactivity is expected from Rabbit anti Human histone H2A.X (pTyr142) antibody based on sequence.

---

**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/AHP3045>  
10049

---

**Regulatory**            For research purposes only

---

## Related Products

### Recommended Secondary Antibodies

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

'M394876:220218'

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

**Printed on 18 Jan 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)