

Datasheet: AHP3045

Description:	RABBIT ANTI HUMAN HISTONE H2A.X (pTyr142)
Specificity:	HISTONE H2A.X (pTyr142)
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	▪			1/500 - 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 (NaN₃)
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](#)

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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

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