



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Histone H2A.x (pS140). Rabbit Phosphorylation Site-Specific Antibody
H2AFX; H2AX

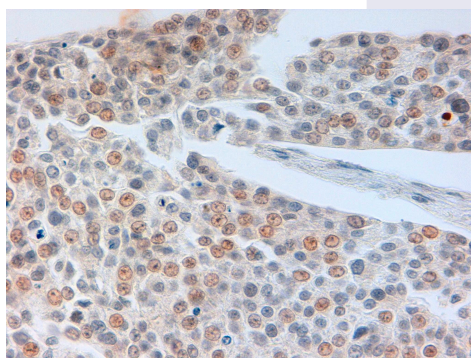
BACKGROUND

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation.

IMMUNOGEN

Phosphopeptide derived from the human histone H2A.x protein.

Immunohistochemical staining of FFPE human bladder tissue using phospho-Histone H2A.x (pS140) antibody at 5 μ g/ml and antigen retrieval at pH 6.2. Visualization using goat anti-rabbit HRP secondary antibody and DAB substrate. Pathologists Comments: Good nuclear reactivity at pH 6.2 for bladder (very nice and clear). We can confirm that nuclear activity is good and sharp.



ORDERING INFORMATION

CATALOG NUMBER

X2752P

SIZE

100 μ g

FORM

Affinity Purified

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western blot, Immunohistochemistry, EIA

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Human P16104

POSITIVE CONTROL/TISSUE EXPRESSION

Human bladder

COMMENTS

Antibody can be used for Western blotting (1-5 $\mu\text{g/ml}$) and immunohistochemistry (2-5 $\mu\text{g/ml}$ at pH 6.2). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Paull, T.T., et al. 'A critical role for histone H2AX in recruitment of repair factors to nuclear foci after DNA damage' *Curr. Biol.*, 10, 886-895 (2000)
2. Kobayashi, J., et al. 'NBS1 localizes to gamma-H2AX foci through interaction with the FHA/BRCT domain.' *Curr. Biol.*, 12, 1846-1851 (2002)
3. Stewart, G.S., et al. 'MDC1 is a mediator of the mammalian DNA damage checkpoint.' *Nature*, 421, 961-966 (2003)
4. Lukas, C., et al. 'Mdc1 couples DNA double-strand break recognition by Nbs1 with its H2AX-dependent chromatin retention.' *EMBO J.*, 23, 2674-2683 (2004)

PRODUCT SPECIFIC REFERENCES