



# 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

### SZABO-SCANDIC HandelsgmbH

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**Histone H2A.x. Rabbit Antigen Immunoaffinity Purified Polyclonal**  
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.

**ORDERING INFORMATION**

**CATALOG NUMBER**  
X2753P

**SIZE**  
100 µg

**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

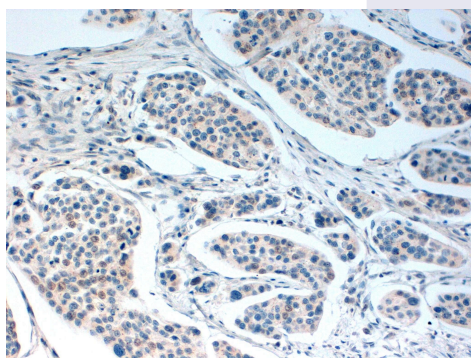
**SPECIES REACTIVITY**  
Human

**ACCESSION NUMBER**  
Human P16104

**IMMUNOGEN**

Synthetic peptide derived from human histone H2a.x protein.

Immunohistochemical staining of FFPE human bladder tissue using Histone H2A.x antibody at 5 µg/ml and antigen retrieval at pH 6.2. Visualization using goat anti-rabbit HRP secondary antibody and DAB substrate. Pathologists Comments: Excellent nuclear staining on bladder. pH 9.5 staining shows better nuclear staining of the neoplastic cells.



**POSITIVE CONTROL/TISSUE EXPRESSION**

Human bladder, ovary, colon

**COMMENTS**

Antibody can be used for Western blotting (1-5  $\mu\text{g/ml}$ ) and immunohistochemistry (2-5  $\mu\text{g/ml}$  at pH 9.5). 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  $-20^{\circ}\text{C}$ . 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**