

# Product Datasheet

## Histone H2AX Antibody NBP2-27428

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 1

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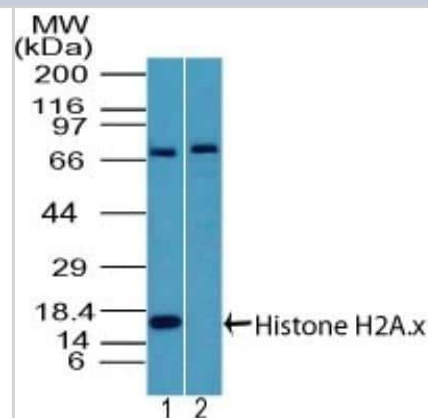
**NBP2-27428**

## Histone H2AX Antibody

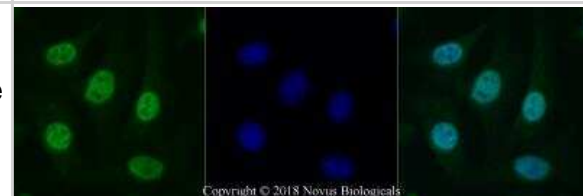
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	0.2 ml PBS and 0.05% BSA
Product Description	
Host	Rabbit
Gene ID	3014
Gene Symbol	H2AX
Species	Human, Mouse
Reactivity Notes	The amino acid sequence used as immunogen is 100% homologous in human, mouse and rat.
Immunogen	A portion of amino acids 50-110 of human Histone H2A.x was used as the immunogen.
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 4-7ug/ml~, Simple Western reported by internal validation, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 5-10ug/ml
Application Notes	In Simple Western internal validation: Transfected HeLa, Human Primary Fibroblast Lysates as samples; separated by size; antibody dilution of 1:100; matrix was 12-230 kDa; detected by Chemiluminescence.

## Images

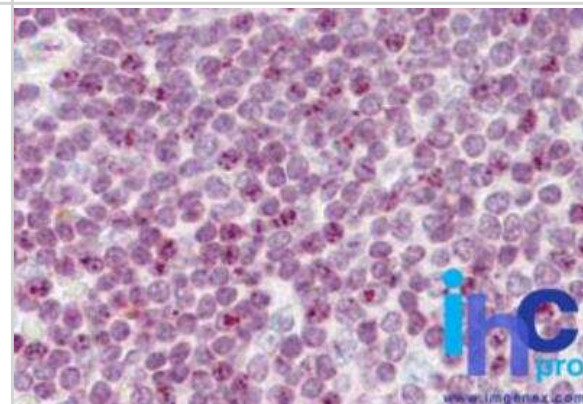
Western Blot: H2AX Antibody [NBP2-27428] - Analysis of MOLT4 lysate in the 1) absence and 2) presence of immunizing peptide using Histone H2A.x antibody at 4 ug/ml. Goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



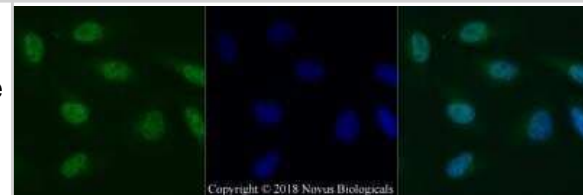
Immunocytochemistry/Immunofluorescence: H2AX Antibody [NBP2-27428] - NIH3T3 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-H2AX at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: H2AX Antibody [NBP2-27428] - Formalin-fixed, paraffin-embedded human spleen stained with Histone H2A.x antibody at 10 ug/ml.



Immunocytochemistry/Immunofluorescence: H2AX Antibody [NBP2-27428] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-H2AX at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



## Publications

Kannan A, Bhatia K, et al. Combined deficiency of Senataxin and DNA-PKcs causes DNA damage accumulation and neurodegeneration in spinal muscular atrophy. *Nucleic Acids Res* 2018-09-19 [PMID: 30010942] (SW, WB, Human)



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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-42464	Recombinant Human Histone H2AX His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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