

For Research Use Only

# Histone H2A.X Monoclonal antibody, PBS Only

Catalog Number: 68888-1-PBS



## Basic Information

Catalog Number:

68888-1-PBS

Size:

1 mg/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

BC013416

GeneID (NCBI):

3014

UNIPROT ID:

P16104

Full Name:

H2A histone family, member X

Calculated MW:

15 kDa

Observed MW:

17 kDa

Purification Method:

Protein A purification

CloneNo.:

3E11B2

## Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

## Background Information

Histone H2A.X belongs to the histone H2A family, which is synthesized in G1 and S phases. It is involved in nucleosomal organization of chromatin together with other histone proteins and is especially important for recombination between immunoglobulin switch regions. H2A.X becomes phosphorylated on serine 139 (to form gamma-H2AFX or H2AX139ph) in response to DNA double strand breaks (DSBs) generated by exogenous genotoxic agents and by stalled replication forks, which promotes DNA repair and maintains genomic stability. The calculated molecular weight of H2AX is 15 kDa, but the ubiquitinated H2A.X is about 22 kDa.

## Storage

Storage:

Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

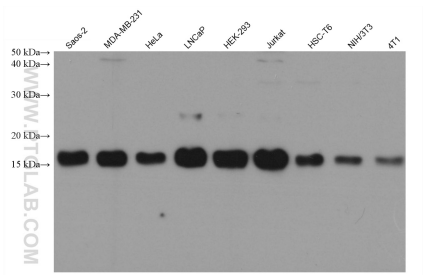
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

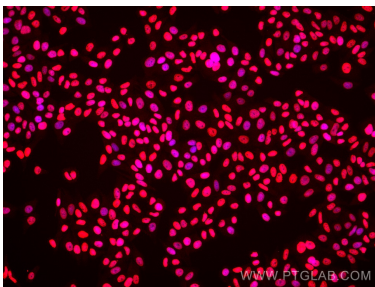
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

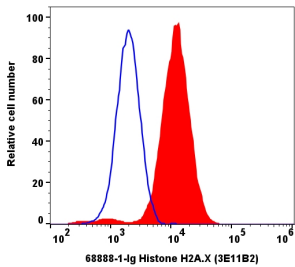
Selected Validation Data



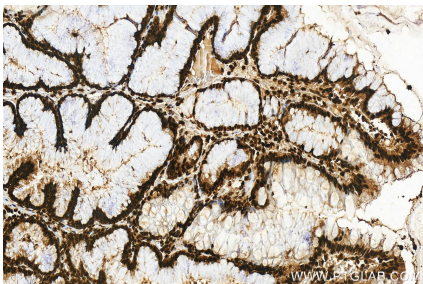
Various lysates were subjected to SDS PAGE followed by western blot with 68888-1-Ig (Histone H2A.X antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68888-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Histone H2A.X antibody (68888-1-Ig, Clone: 3E11B2 ) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004 ). This data was developed using the same antibody clone with 68888-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.1 ug Histone H2A.X Monoclonal antibody (68888-1-Ig, Clone:3E11B2) and Multi-rAb CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM005)(red), or 0.1 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100. This data was developed using the same antibody clone with 68888-1-PBS in



Immunohistochemical analysis of paraffin-embedded human stomach cancer slide using 68888-1-Ig (Histone H2A.X antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68888-1-PBS in a different storage buffer formulation.