

For Research Use Only

Histone H2A.X Monoclonal antibody

Catalog Number: 68888-1-Ig **2 Publications**



Basic Information

Catalog Number: 68888-1-Ig	GenBank Accession Number: BC013416	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3014	CloneNo.: 3E11B2
Source: Mouse	UNIPROT ID: P16104	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:500-1:2000
Isotype: IgG1	Full Name: H2A histone family, member X	
	Calculated MW: 15 kDa	
	Observed MW: 17 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : Saos-2 cells, MDA-MB-231 cells, HeLa cells, LNCaP cells, HEK-293 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells IHC : human stomach cancer, human stomach cancer tissue IF/ICC : HepG2 cells,
Cited Applications: WB, IF	
Species Specificity: human, mouse, rat	
Cited Species: human, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyun Xie	39715938	Histochem Cell Biol	IF
Bichuan Wang	39106476	J Med Chem	WB

Storage

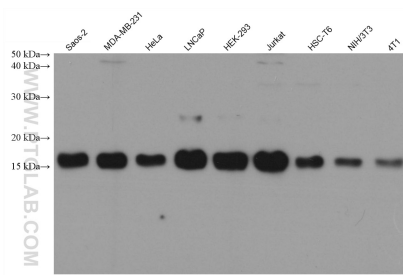
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

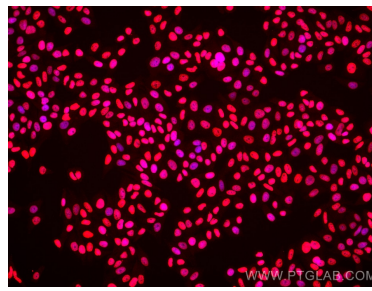
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

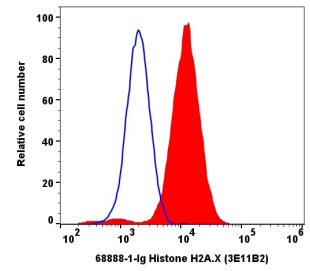
Selected Validation Data



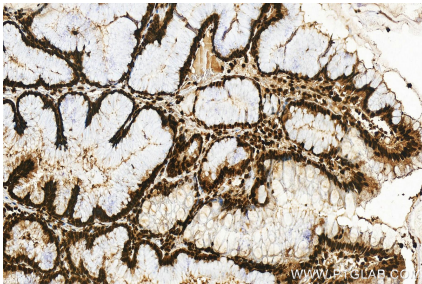
Various lysates were subjected to SDS PAGE followed by western blot with 68888-1-Ig (Histone H2A.X antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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).



1×10^6 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.



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).