

For Research Use Only

Histone H2A.X Monoclonal antibody

Catalog Number: 68888-1-Ig



Basic Information

Catalog Number: 68888-1-Ig	GenBank Accession Number: BC013416	Purification Method: Protein G purification
Size: 1000 ug/ml	GeneID (NCBI): 3014	CloneNo.: 3E11B2
Source: Mouse	UNIPROT ID: P16104	Recommended Dilutions: WB 1:5000-1:50000 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, IF/ICC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

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

IF/ICC : HepG2 cells,

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 -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

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

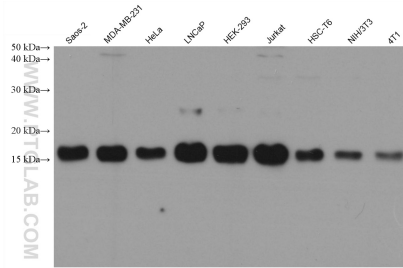
T: 4006900926

E: Proteintech-CN@ptglab.com

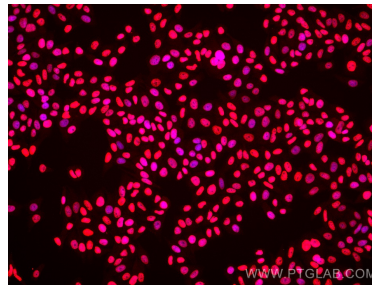
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Selected Validation Data



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).

1x10⁶ 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.