

For Research Use Only

Histone H2A.X Recombinant antibody

Catalog Number: 83307-3-RR



Basic Information

Catalog Number: 83307-3-RR	GenBank Accession Number: BC013416	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3014	CloneNo.: 250032F5
Source: Rabbit	UNIPROT ID: P16104	Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:250-1:1000
Isotype: IgG	Full Name: H2A histone family, member X	
Immunogen Catalog Number: AG1305	Calculated MW: 15 kDa	
	Observed MW: 15-18 kDa, 22 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HEK-293T cells, NIH/3T3 cells, C6 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human kidney(renal cell) Cancer,

Background Information

Histone H2A.X belongs to the histone H2A family, which is synthesized in G1 and S phase. It is involved in nucleosomal organization of chromatin together with other histone proteins, and is specially 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

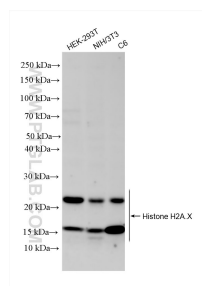
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

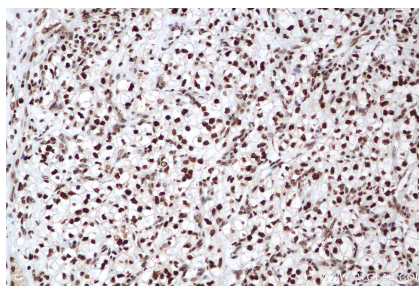
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



HEK-293T cells were subjected to SDS PAGE followed by western blot with 83307-3-RR (Histone H2A.X antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney(renal cell) Cancer slide using 83307-3-RR (Histone H2A.X antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).