

## Anti-Histone H2A.X Rabbit pAb



WL00616a

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-Histone H2A.X Rabbit pAb	
<b>Source</b>	Rabbit	
<b>Species reactivity</b>	Human, Mouse, Rat	
<b>Tested applications</b>	WB	1:500-1:1000
	IHC	1:150
<b>Cellular localization</b>	Nucleus. Chromosome	
<b>Pack size</b>	50/100/200/500/1000µl	
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>	
<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide	

## General Information

**Background** Histone H2A.X is a variant histone that represents approximately 10% of the total H2A histone proteins in normal human fibroblasts. H2A.X is required for checkpoint-mediated cell cycle arrest and DNA repair following double-stranded DNA breaks. Within minutes following DNA damage, H2A.X is phosphorylated at Ser139 at sites of DNA damage. H2A.X is phosphorylated at Ser139 by DNA-PK in response to cell death receptor activation, c-Jun N-terminal Kinase (JNK1) in response to UV-A irradiation, and p38 MAPK in response to serum starvation. H2A.X is constitutively phosphorylated on Tyr142 in undamaged cells by WSTF (Williams-Beuren syndrome transcription factor).

**Immunogen** Polyclonal antibody is produced by immunizing animals with a synthetic peptide of Histone H2A.X.

**Purification** Polyclonal antibody was purified by immunogen affinity chromatography.

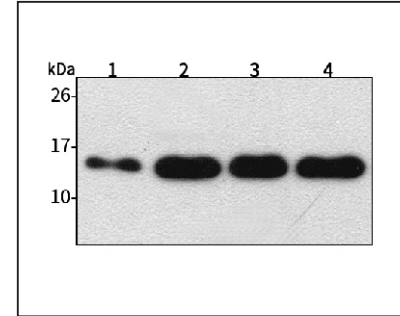
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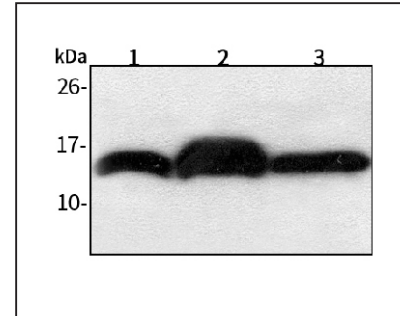
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## Product Images



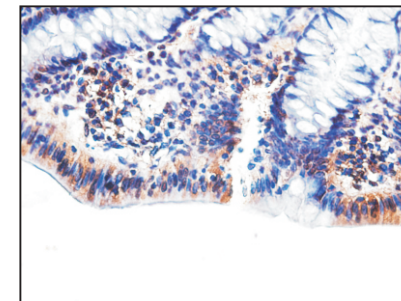
## Western blot-Anti-Histone H2A.X pAb

Lane 1: Human BGC-823 cell lysate  
 Lane 2: Human MGC-803 cell lysate  
 Lane 3: Human SGC-7901 cell lysate  
 Lane 4: Human MCF-7 cell lysate  
 All lanes: Anti-Histone H2A.X at 1:1000 dilution  
 Lysates/proteins at 20-50 µg per lane.  
 Predicted band size: 15 kDa  
 Observed band size: 15 kDa



## Western blot-Anti-Histone H2A.X pAb

Lane 1: Mouse kidney tissue lysate  
 Lane 2: Mouse liver tissue lysate  
 Lane 3: Rat heart tissue lysate  
 All lanes: Anti-Histone H2A.X at 1:1000 dilution  
 Lysates/proteins at 20-50 µg per lane.  
 Predicted band size: 15 kDa  
 Observed band size: 15 kDa



## Immunohistochemistry-Anti-Histone H2A.X pAb

Immunohistochemical analysis of paraffin-embedded mouse colon using anti-Histone H2A.X Rabbit Antibody at 1:150 dilution. Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0