

Anti-phospho-H2A.X (Ser139)

Polyclonal Antibody

Cat. # 07-164

Lot # DAM1416522

pack size: 200 µg

Store at -20°C

FOR RESEARCH USE ONLY
NOT FOR USE IN HUMANS



Certificate of Analysis

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Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/Region	Host Species	Molecular Weight	Accession #
WB, IP	H, WR	IgG	a.a. 134-142	Rb	15 kDa	NP002096

Background

Histone H2A is one of the 5 main histone proteins involved in the structure of chromatin in eukaryotic cells. Featuring a main globular domain and a long N terminal tail H2A is involved with the structure of the nucleosomes of the 'beads on a string' structure.

Presentation

Purified rabbit polyclonal IgG in buffer containing 0.1 M Tris-glycine, pH 7.4, 0.15 M NaCl, 0.05% sodium azide before the addition of glycerol to 30%.

Concentration

1 mg/mL

Specificity

Histone H2A.X phosphorylated at Ser139.

Species Cross-reactivity

Human; broad species cross-reactivity expected based on conservation of sequence homology.

Immunogen

KLH-conjugated, synthetic peptide (CKATQA[pS]QEY) corresponding to amino acids 134-142 of human histone H2A.X. The immunizing sequence has 8 identical amino acids in yeast and mouse.

Molecular Weight

15 kDa

Method of Purification

Protein A chromatography

Storage and Handling

Stable for 1 year at -20°C from date of receipt.

Handling Recommendations: Upon receipt, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C.

Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance. Note: Variability in freezer temperatures below -20°C may cause glycerol-containing solutions to become frozen during storage.

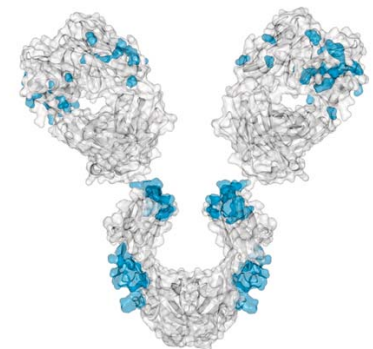
Control

Staurosporine-treated Jurkat lysate, UV-treated HT-29 cells, doxorubicin-treated HT-29 cells.

Quality Control Testing

Routinely evaluated by Western Blot on untreated and staurosporine treated Jurkat lysate.

Western Blot Analysis: 1:500 dilution of this lot detected **phospho-H2A.X** on 10 µg of **staurosporine treated Jurkat lysate**.

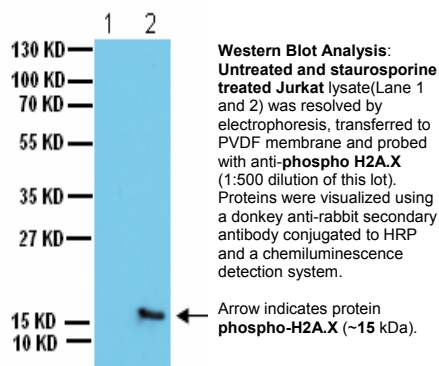


References

1. Chowdhury, D., *et al.* (2005). *Mol. Cell.* 20: 801-809.
2. Yih, L. H., *et al.* (2005). *Carcinogenesis.* 26: 53-63.
3. d'Adda di Fagagna, F., *et al.* (2003). *Nature.* 426: 194-8.
4. Hamer, G., *et al.* (2003). *Biol. Reprod.* 68: 628-34.
5. Li, J., *et al.* (2003). *J Biol Chem.* 278: 13183-91.
6. Paull, T. T., *et al.* (2000). *Current Bio.* 10: 886-895.

Additional Research Applications

Immunoprecipitation: A previous lot of this antibody successfully immunoprecipitated phosphorylated H2A.X as determined by an independent laboratory.



APPLICATION LEGEND: WB Western Blotting IP Immunoprecipitation IC Immunocytochemistry IF Immunofluorescence
IH Immunohistochemistry (Tissue)

SPECIES LEGEND: H Human M Mouse R Rat Rb Rabbit WR Most Common Vertebrates

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