Histone H2A.X(Phospho-Ser139) Rabbit mAb

Catalog No: #13343

Package Size: #13343-1 50ul #13343-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Histone H2A.X(Phospho-Ser139) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SR33-09
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser139 of human Histone H2A.X.
Conjugates	Unconjugated
Other Names	AW228881 antibody H2A histone family member X antibody H2A.FX antibody H2A.X antibody H2a/x antibody H2AFX antibody H2AX antibody H2AX histone antibody H2AX_HUMAN antibody Hist5.2ax antibody Histone 2A antibody Histone 2AX antibody Histone H2A.X antibody Histone H2AX antibody RGD1566119 antibody
Accession No.	Swiss-Prot#:P16104
Calculated MW	15 kDa
SDS-PAGE MW	15 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

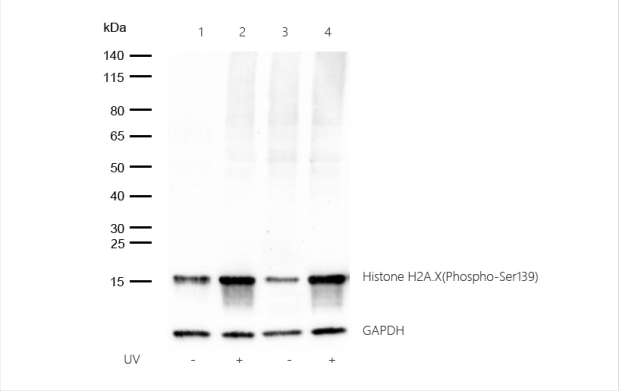
Application Details

WB: 1:500-1:2000

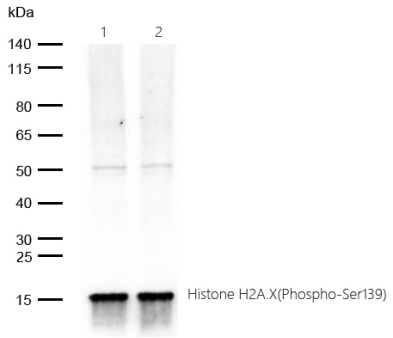
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

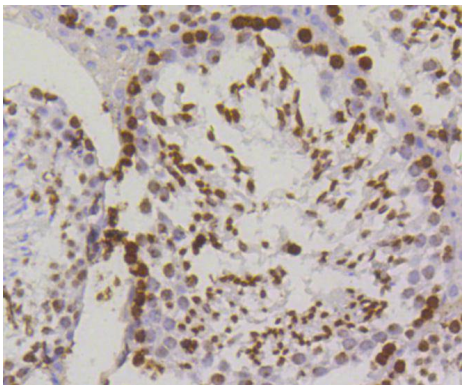
Images



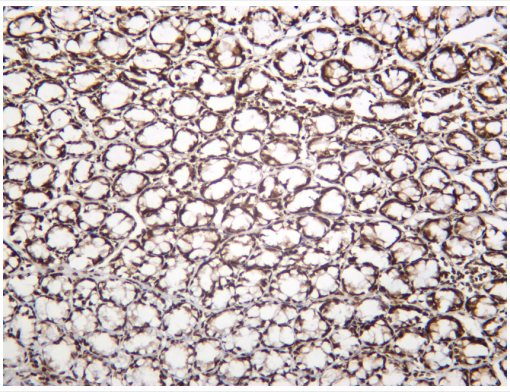
All lanes : Histone H2A.X(Phospho-Ser139) Rabbit mAb at 1/1k dilutionLane 1 : Hela whole cell lysatesLane 2 : Hela treated with UV for 2 hours whole cell lysatesLane 3 : 293 whole cell lysatesLane 4 : 293 treated with UV for 2 hours whole cell lysatesLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 15 kDa Observed band size: 15 kDaExposure time: 6 seconds



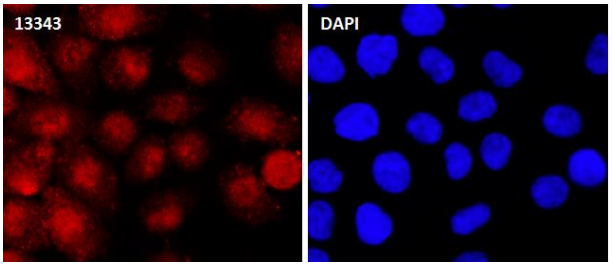
All lanes : Histone H2A.X(Phospho-Ser139) Rabbit mAb at 1/1k dilutionLane 1 : C6 whole cell lysatesLane 2 : 3T3 whole cell lysatesLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 15 kDa Observed band size: 15 kDaExposure time: 5 seconds



Formalin-fixed;paraffin-embedded mouse testis tissue stained for Histone H2A.X (Phospho-S139) using 13343 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded rat colon tissue stained for Histone H2A.X (Phospho-S139) using 13343 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Histone H2A.X (Phospho-S139) antibody (13343)
ICC/IF staining of Histone H2A.X (Phospho-S139) in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13343 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

Background

Histone H2A.X is a member of the Histone H2A family, which is involved in nucleosomal organization of chromatin. The H2AFX gene is located in close proximity to the Porphobilinogen deaminase (PBG-D) gene in both mouse and human, and maps to chromosome 9 and 11q23, respectively. H2A.X differs from the other members of the H2A family by the presence of a highly conserved C-terminal motif. It is rapidly phosphorylated in response to ionizing radiation and plays an important role in the recognition and repair of DNA double stranded breaks. The phosphorylated form of H2A.X, designated ?-H2A.X, forms nuclear foci at the heavy chain constant region of cells involved in class switch recombination (CSR), a region-specific DNA reaction that replaces one immunoglobulin heavy chain constant region gene with another. The phosphorylated ?-H2A.X is also thought to initiate subsequent repair factors, including Rad50, Rad51 and BRCA1.

References

1. Kung, M.L. et al. 2015. Enhanced reactive oxygen species overexpression by CuO nanoparticles in poorly differentiated hepatocellular carcinoma cells. Nanoscale. 7: 1820-9.
2. Cilli, D. et al. 2014. Identification of the interactors of human nibrin (NBN) and of its 26 kDa and 70 kDa fragments arising from the NBN 657del5 founder mutation. PloS one. 9: e114651.

Published Papers

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PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.