Product Datasheet

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

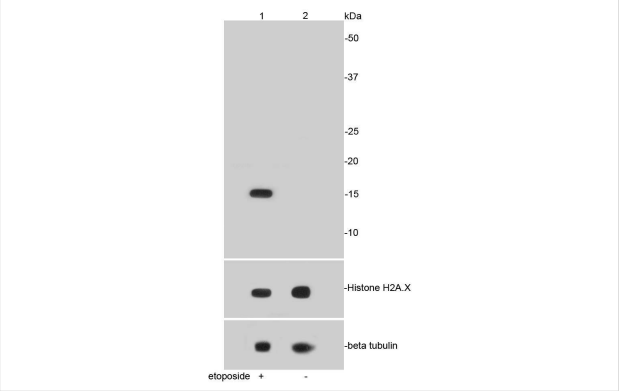
Application Details

WB: 1:500-1:2000

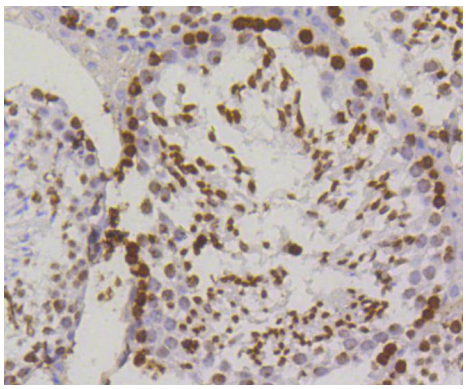
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



Western blot analysis of Phospho-Histone H2A.X(S139) on HepG2 cell lysates using anti-Phospho-Histone H2A.X(S139) antibody at 1/1,000 dilution. Positive control:
Lane 1: HepG2 cell lysateΩ½Ctreated with etoposide
Lane 3: HepG2 cell lysateΩ½Cuntreated



Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti- Phospho-Histone H2A.X(S139) antibody. Counter stained with hematoxylin.

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

el at., NRSF deficiency leads to abnormal postnatal development of dentate gyrus and impairment of progenitors in subgranular zone of hippocampus. In Hippocampus on 2021 Sep

by Yan-Cong Wang, Pu Liu 1, et al..PMID:33960056, , (2021)

PMID:33960056

Ye Liuqi;Lin Danlei;Zhang Wen;Chen Shiji;Zhen Yumiao;Akkouche Sara;Liang Xiaoxu;Chong Cheong-Meng;Zhong Hai-Jing; el at., AMBRA1 drives gastric cancer progression through regulation of tumor plasticity, , (2024)

PMID:

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