



Datasheet for ABIN3023622
anti-Histone H2A antibody (pSer139)



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2 Images

1 Publication

Overview

Quantity:	100 µL
Target:	Histone H2A
Binding Specificity:	pSer139
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone H2A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	A synthetic phosphorylated peptide around S139 of human Histone H2AX (NP_002096.1).
Sequence:	TQASQ
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Phosphorylated Antibodies
Purification:	Affinity purification

Target Details

Target:	Histone H2A
Abstract:	Histone H2A Products

Target Details

Background: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a replication-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif.,H2A.X,H2A/X,H2AX,Histone H2AX,H2AFX,histone H2AX,gamma H2A.X,yH2AX,Epigenetics & Nuclear Signaling,Histones,DNA Damage & Repair,Epigenetics & Nuclear Signaling,Epigenetic Modifications,Phosphorylation,Histone H2A

Molecular Weight: 15 kDa

Gene ID: 3014

UniProt: [P16104](#)

Application Details

Application Notes: WB,1:500 - 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1mg/ml

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid freeze / thaw cycles

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Prasetyo, Sampoerno, Juniarti, Cahyani, Saraswati, Kuntjoro, Tjendronegoro: "Effect of

Lipopolysaccharide-Induced Apical Periodontitis in Diabetes Mellitus Rats on Periapical Inflammation." in: **European journal of dentistry**, (2023) ([PubMed](#)).

Images

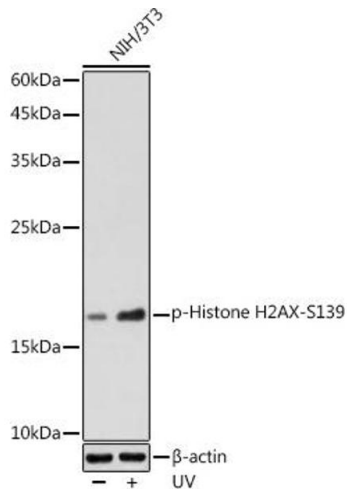
**Western Blotting**

Image 1. Western blot analysis of extracts of NIH/3T3 cells, using Phospho-Histone H2AX-S139 antibody (ABIN3023621, ABIN3023622, ABIN3023623, ABIN1513352 and ABIN6225475) at 1:500 dilution. NIH/3T3 cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.

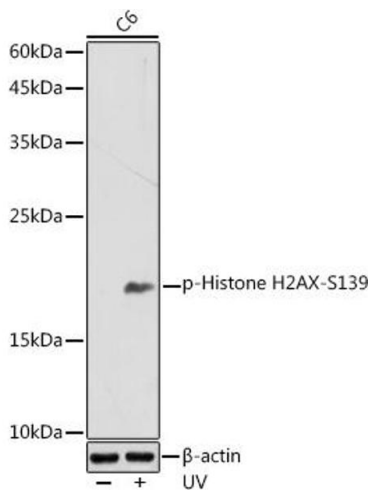
**Western Blotting**

Image 2. Western blot analysis of extracts of C6 cells, using Phospho-Histone H2AX-S139 antibody (ABIN3023621, ABIN3023622, ABIN3023623, ABIN1513352 and ABIN6225475) at 1:500 dilution. C6 cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.