For Research Use Only

Phospho-Histone H2A.X (Ser139) Polyclonal antibody

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Catalog Number:29380-1-AP 6 Publications

Basic Information

Catalog Number:
29380-1-AP

Size:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC013416

GeneID (NCBI):
3014

UNIPROT ID:
P16104

Full Name:
H2A histone family, member X

Calculated MW:
15 kDa

Observed MW:
15 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IF

Species Specificity:
Human

Cited Species:
human, mouse

Positive Controls:

WB : UV treated HEK-293 cells,

Background Information

The histone variant H2AX is a major component of the DNA damage response (DDR), especially functioning in amplifying DNA damage signals. In response to DNA double-strand breaks (DSBs), H2AX is instantaneously phosphorylated at Ser139 (a form called cH2AX) by the kinases ATM and ATR. The phosphorylation of H2AX at Ser139, resulting in the formation of gamma-H2AX puncta in the nuclei, is an early event in the cellular response to DNA damage. Therefore, phospho-Histone H2A. X (Ser139) is also known as γ H2AX. The phosphorylation site of H2AX, Ser139, has also been described as Ser140 in other literature, and they recognize the same amino acid site. (PMID: 22908299, PMID: 30106130, PMID:22941631)

Notable Publications

Author	Pubmed ID	Journal	Application
Xi Sheng	38583247	Bioorg Chem	WB
Chuanxin Zhang	38364760	Ecotoxicol Environ Saf	IF
Jie Liu	38195456	J Nanobiotechnology	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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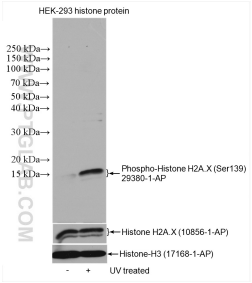
Selected Validation Data



Non-treated and UV treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 29380-1-AP (Phospho-Histone H2A.X (Ser139) antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Histone H2A.X antibody and Histone H3 antibody as loading control.