

For Research Use Only

Phospho-Histone H2A.X (Ser139) Polyclonal antibody



Catalog Number: 29380-1-AP **4 Publications**

Basic Information

Catalog Number: 29380-1-AP	GenBank Accession Number: BC013416	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 400 µg/ml by Nanodrop;	GeneID (NCBI): 3014	Recommended Dilutions: WB 1:500-1:3000
Source: Rabbit	UNIPROT ID: P16104	
Isotype: IgG	Full Name: H2A histone family, member X	
	Calculated MW: 15 kDa	
	Observed MW: 15 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : UV treated HEK-293 cells,
Cited Applications: WB	
Species Specificity: Human	
Cited Species: human, mouse	

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 γ H2AX) by the kinases ATM and ATR. The phosphorylation of H2AX at Ser139, resulting in the formation of γ 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
Jie Liu	38195456	J Nanobiotechnology	WB
Qiqi Zhang	38055636	ACS Nano	WB
Qingfeng Fu	38006403	Aging (Albany NY)	WB

Storage

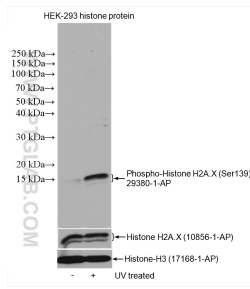
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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.