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Datasheet for ABIN7127309 Recombinant anti-H2AFX antibody (pSer139)





Overview

Quantity:	100 µL
Target:	H2AFX
Binding Specificity:	pSer139
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This H2AFX antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	A synthesized peptide
Clone:	1F10
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

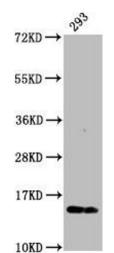
Target Details

Target:	H2AFX
Alternative Name:	H2AFX (H2AFX Products)

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Target D	Details
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Background:	Background: Variant histone H2A which replaces conventional H2A in a subset of
	nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility
	to the cellular machineries which require DNA as a template. Histones thereby play a central
	role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA
	accessibility is regulated via a complex set of post-translational modifications of histones, also
	called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of
	cell cycle progression in response to low doses of ionizing radiation and for efficient repair of
	DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation.
	Aliases: Histone H2AX, H2a/x, Histone H2A.X, H2AFX, H2AX
UniProt:	P16104
Pathways:	Telomere Maintenance, DNA Damage Repair, Positive Regulation of Response to DNA Damage
	Stimulus
Application Details	
Application Notes:	Recommended dilution: WB:1:3000-1:10000,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Western Blotting

Image 1. Western Blot Positive WB detected in:293 whole cell lysate All lanes:Phospho-Histone H2AX (S139) antibody at 0.23 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 15 KDa Observed band size: 15 KDa

Immunohistochemistry

Image 2. IHC image of ABIN7127309 diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

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