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Datasheet for ABIN742538 anti-H2AFX antibody (pSer140)

2 Images

4 Publications



Overview

Quantity:	100 µL
Target:	H2AFX
Binding Specificity:	pSer140
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This H2AFX antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (Paraffin- embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human Histone H2AX around the phosphorylation site of Ser140
Isotype:	lgG
Specificity:	This phosphorylation site is homologous to that of Ser140 in Mouse and Rat.
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

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Target Details

	H2AFX
Alternative Name:	Histone H2a.X (H2AFX Products)
Background:	Synonyms: H2AX, H2A.X, H2A/X, Histone H2AX, Histone H2A.X, H2AFX
	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.
Gene ID:	3014
UniProt:	P16104
Pathways:	Telomere Maintenance, DNA Damage Repair, Positive Regulation of Response to DNA Damage
	Stimulus

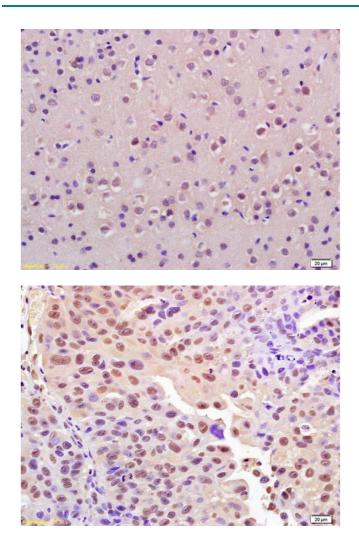
Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

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Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be
	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Chen, Song, Hou, Li: "Reactive oxygen species induced by icaritin promote DNA strand breaks
	and apoptosis in human cervical cancer cells." in: Oncology reports, Vol. 41, Issue 2, pp. 765-
	778, (2019) (PubMed).
	Shi, Wang, Li, Bai, Li, Li, Wang, Zhou: "Dihydroartemisinin induces autophagy-dependent death i
	human tongue squamous cell carcinoma cells through DNA double-strand break-mediated
	oxidative stress." in: Oncotarget , Vol. 8, Issue 28, pp. 45981-45993, (2018) (PubMed).
	Song, Shi, Liu, Wang, Wang, Song, Song: "Unpredicted Downregulation of RAD51 Suggests
	Genome Instability Induced by Tetrachlorobenzoquinone." in: Chemical research in toxicology
	Vol. 29, Issue 12, pp. 2184-2193, (2016) (PubMed).
	Shi, Yang, Mao, Wu, Ren, Yang, Yin, Wei, Li, Wang: "Nutlin-3-induced redistribution of chromatin
	bound IFI16 in human hepatocellular carcinoma cells in vitro is associated with p53 activation.
	in: Acta pharmacologica Sinica, Vol. 36, Issue 2, pp. 252-8, (2015) (PubMed).



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-Phospho-Histone H2A.X (Ser139) Polyclonal Antibody, Unconjugated (ABIN742538) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human bladder carcinoma labeled with Anti-Phospho-Histone H2A.X (Ser139) Polyclonal Antibody, Unconjugated (ABIN742538) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

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