Datasheet for ABIN1387945

anti-H2AFX antibody (ubLys119)

3 Images

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Overview

Quantity:	100 µL
Target:	H2AFX
Binding Specificity:	ubLys119
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This H2AFX antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Ubiquityl Histone H2A.X (Lys119)
Isotype:	IgG
Specificity:	This modification site is homologous to that of Lys119 in Rat.
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	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
	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

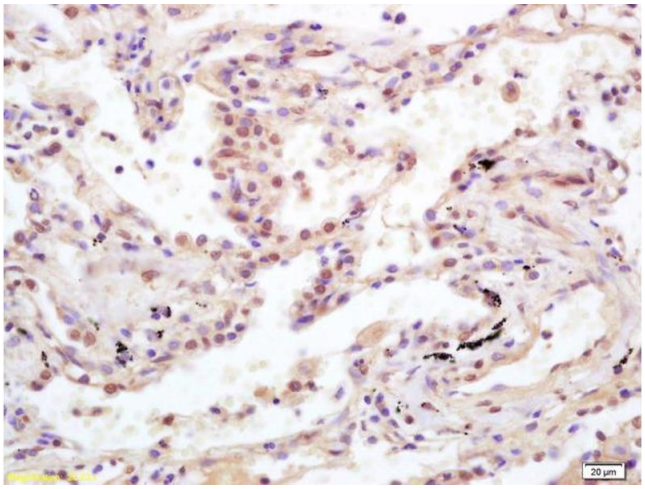
Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

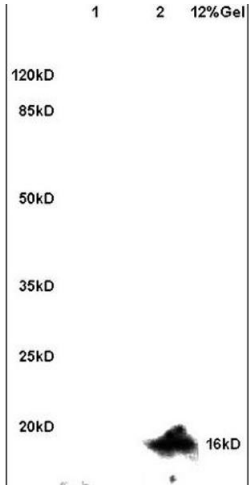
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

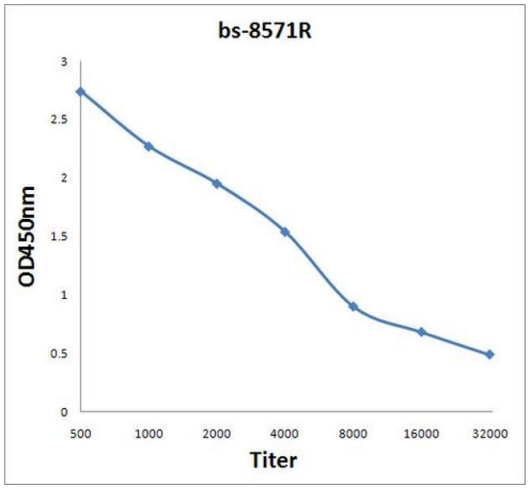
Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-Ubiquityl Histone H2A.X (Lys119) Polyclonal Antibody, Unconjugated (ABIN1387945) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



SDS-PAGE

Image 2. Lane 1: mouse brain lysates Lane 2: mouse heart lysates probed with Anti Ubiquityl Histone H2A.X (Lys119) Polyclonal Antibody, Unconjugated (ABIN1387945) at 1:200 in 4C. Followed by conjugation to secondary antibody at 1:3000 90min in 37C. Predicted band 16kD. Observed band size: 16kD.

Images



ELISA

Image 3. Antigen: 0.2 μg/100 μL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450