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Datasheet for ABIN1882251

## anti-H2AFX antibody (N-Term)

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### Overview

Quantity:	400 µL
Target:	H2AFX
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This H2AFX antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	This H2AFX antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human H2AFX.
Clone:	980CT1-5-5
Isotype:	IgG1
Predicted Reactivity:	Zf, M
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

### Target Details

Target:	H2AFX
Alternative Name:	H2AFX ( <a href="#">H2AFX Products</a> )

## Target Details

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Background:	<p>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.</p>
Molecular Weight:	15145
NCBI Accession:	<a href="#">NP_002096</a>
UniProt:	<a href="#">P16104</a>
Pathways:	<a href="#">Telomere Maintenance</a> , <a href="#">DNA Damage Repair</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a>

## Application Details

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Application Notes:	WB: 1:1000. IHC-P: 1:25
Restrictions:	For Research Use only

## Handling

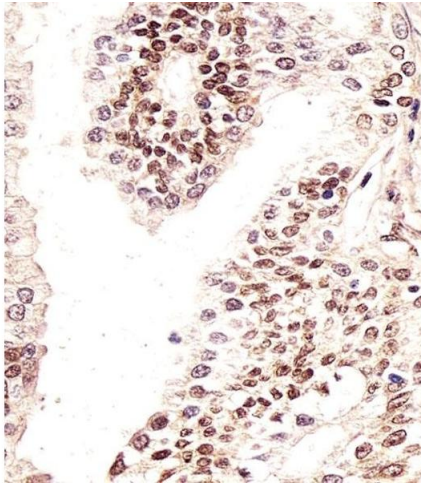
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Format:	Liquid
Buffer:	Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Expiry Date:	6 months

## Publications

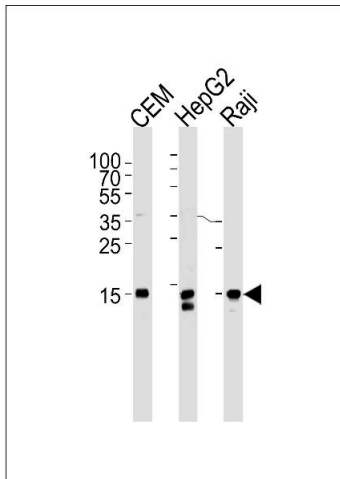
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Product cited in:	Tekin, Erden, Ozyalin, Cigremis, Colak, Sandal: "The effects of intracerebroventricular infusion of irisin on feeding behaviour in rats." in: <b>Neuroscience letters</b> , Vol. 645, pp. 25-32, (2017) ( <a href="#">PubMed</a> ).
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### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemical analysis of paraffin-embedded H. prostate section using H2AFX Antibody (N-term) (ABIN1882251 and ABIN2843408). (ABIN1882251 and ABIN2843408) was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



### Western Blotting

**Image 2.** H2AFX Antibody (N-term) (ABIN1882251 and ABIN2843408) western blot analysis in CEM,HepG2,Raji cell line lysates (35 µg/lane).This demonstrates the H2AFX antibody detected the H2AFX protein (arrow).