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## Datasheet for ABIN2856590 anti-H2AFZ antibody (N-Term)

3 Images

1 Publication



## Overview

Quantity:	100 µL
Target:	H2AFZ
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This H2AFZ antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Whole Mount) (IHC (wm))

## Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Histone H2A.Z. The exact sequence is proprietary.
Isotype:	lgG
Cross-Reactivity:	Human, Zebrafish (Danio rerio)
Characteristics:	Rabbit Polyclonal antibody to Histone H2A.Z (H2A histone family, member Z) Histone H2A.Z antibody
Purification:	Purified by antigen-affinity chromatography.

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## Target Details

Target Details		
Target:	H2AFZ	
Alternative Name:	H2A histone family member Z (H2AFZ Products)	
Background:	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-independent member of the histone H2A family that is distinct from other members of the family. Studies in mice have shown that this particular histone is required for embryonic development and indicate that lack of functional histone H2A leads to embryonic lethality.	
Molecular Weight:	14 kDa	
Gene ID:	3015	
UniProt:	P0C0S5	
Pathways:	Telomere Maintenance	
Application Details		
Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.	
Comment:	Positive Control: Jurkat	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.52 mg/mL	
Buffer:	0.1M Tris-Glycine ( pH 7), 10 % Glycerol, 0.01 % Thimerosal	
Preservative:	Thimerosal (Merthiolate)	
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE	

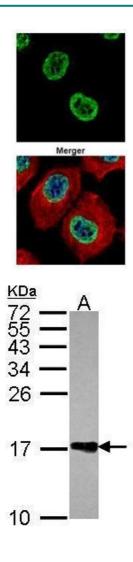
which should be handled by trained staff only.

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Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Publications	
Product cited in:	Piquet, Le Parc, Bai, Chevallier, Adam, Polo: "The Histone Chaperone FACT Coordinates H2A.X- Dependent Signaling and Repair of DNA Damage." in: <b>Molecular cell</b> , Vol. 72, Issue 5, pp. 888- 901.e7, (2018) (PubMed).

## Images



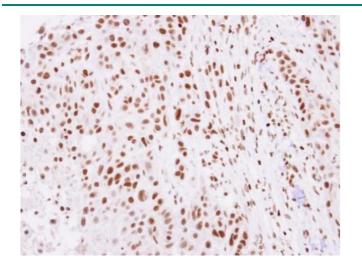
### Immunofluorescence

**Image 1.** ICC/IF Image Confocal immunofluorescence analysis (Olympus FV10i) of paraformaldehyde-fixed A431, using Histone H2A.Z, antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with (Red) at 1:500.

#### Western Blotting

Image 2. WB Image Sample (30 ug of whole cell lysate) A: JurKat 15% SDS PAGE antibody diluted at 1:1000

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#### Immunohistochemistry

**Image 3.** IHC-P Image Immunohistochemical analysis of paraffin-embedded SCC4 xenograft, using Histone H2A.Z, antibody at 1:100 dilution.

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