Datasheet for ABIN4889649

anti-H2AFZ antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	H2AFZ
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This H2AFZ antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), ChIP DNA-Sequencing (ChIP-seq), Dot Blot (DB), Cleavage Under Targets and Tagmentation (CUT&Tag), Cleavage Under Targets and Release Using Nuclease (CUT&RUN)

Product Details

Immunogen:	This Histone H2A.Z antibody was raised against a peptide derived from the C-terminus of human histone H2A.Z.
Purification:	None

Target Details

Target:	H2AFZ
Alternative Name:	Histone H2A.Z (H2AFZ Products)
Molecular Weight:	14 kDa
Gene ID:	3015

Target Details

Pathways:	Telomere Maintenance

Application Details

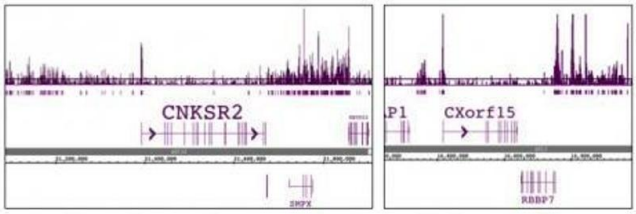
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Rabbit serum containing 30 % glycerol and 0.035 % 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.
Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-20 °C
Storage Comment:	Antibodies in solution can be stored at -20 °C for 2 years.
Expiry Date:	6 months

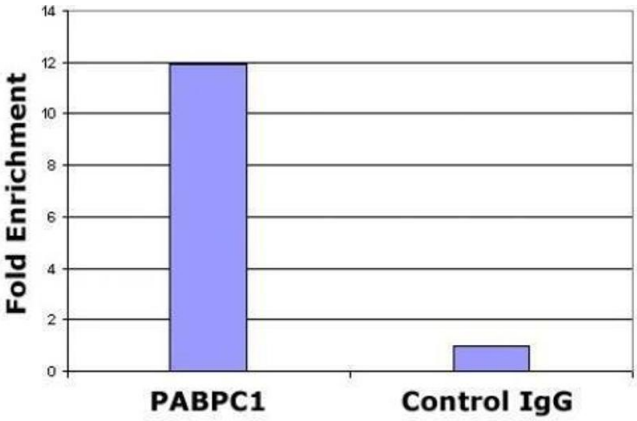
Publications

Product cited in:	Chang, Chan, R McGhie, Udugama, Mayne, Collas, Mann, Wong: "CHK1-driven histone H3.3 serine 31 phosphorylation is important for chromatin maintenance and cell survival in human ALT cancer cells." in: **Nucleic acids research**, Vol. 43, Issue 5, pp. 2603-14, (2015) (PubMed).
	There are more publications referencing this product on: Product page



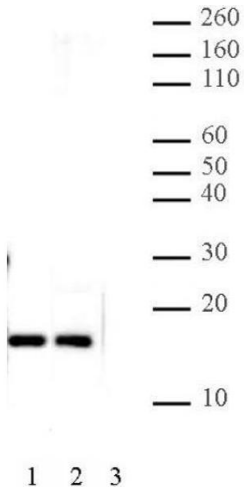
ChIP DNA-Sequencing

Image 1. Histone H2A.Z antibody tested by ChIP-Seq. ChIP was performed using the ChIP-IT® High Sensitivity Kit (Cat. No. 53040) with chromatin from the human H9 embryonic stem cell line (4.5 million cells) and 5 ul of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 30 million sequence tags were mapped to identify H2A.Z occupancy. H2A.Z is found throughout the genome, is often enriched at promoters and depleted from transcribed genes as shown in the images.



Chromatin Immunoprecipitation

Image 2. Histone H2A.Z antibody tested by ChIP analysis. Chromatin IP performed using the ChIP-IT® Express Kit (Catalog No. 53008) and HeLa Chromatin (1.5 x 106 cell equivalents per ChIP) using 10 µl of Histone H2A.Z pAb or 10 µl of rabbit IgG as a negative control. Real time, quantitative PCR (RT-qPCR) was performed on DNA purified from each of the ChIP reactions using a primer pair specific for the indicated gene. Data are presented as Fold Enrichment of the ChIP antibody signal versus the negative control IgG using the ddCT method.



Western Blotting

Image 3. Histone H2A.Z antibody tested by Western blot. Detection of H2A.Z by Western blot. The analysis was performed using Histone H2A.Z pAb at a 1:5,000 dilution. Lane 1: 20 ng recombinant histone H2A.Z protein. Lane 2: 5 µg HeLa acid extract. Lane 3: 5 µg HeLa acid extract plus 1 µM immunizing peptide.

Please check the product details page for more images. Overall 4 images are available for ABIN4889649.