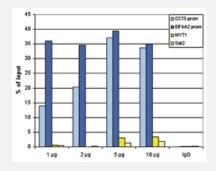
Histone H2AZ polyclonal antibody

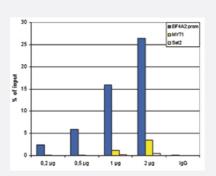
Catalog # PAB31310 Size 50 ug

Applications



ChIP

ChIP assays were performed using human HeLa cells. A titration consisting of 1, 2, 5 and 10 ug of antibody per ChIP experiment was analyzed. IgG (2 ug/IP) was used as a negative IP control.



ChIP

ChIP assays were performed using human K562 cells. A titration of the antibody consisting of 0.2, 0.5, 1 and 2 ug per ChIP experiment was analysed. IgG (1 ug/IP) was used as negative IP control. Quantitative PCR was performed with primers specific for the promoter of the active genes CCT5 and EIF4A2, used as positive controls, and for the coding region of the inactive MYT1 gene and the Sat2 satellite repeat, used as negative controls. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).

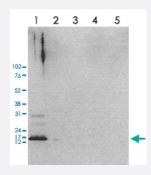
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ChIP-Seq

ChIP was performed on sheared chromatin from 100,000 K562 cells using antibody. The figure shows the peak distribution along the complete sequence and a 1.5 Mb region of the X-chromosome and in two regions surrounding the EIF4A2 and CCT5 positive control genes, respectively.

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Product Information



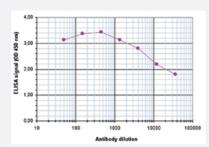
Western Blot

Western Blot analysis of (1) 25 ug whole cell extracts of Hela cells, (2) 1 ug of recombinant histone H2A, (3) 1 ug of recombinant histone H2B, (4) 1 ug of recombinant histone H3, (5) 1 ug of recombinant histone H4.



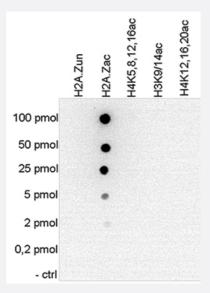
Immunofluorescence

Immunofluorescent staining of Hela cell line with antibody followed by an antirabbit antibody conjugated to Alexa488 (left). The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings (right).



Enzyme-linked Immunoabsorbent Assay

ELISA is a quantitative method used to determine the titer of the antibody using a serial dilution of antibody against Histone H2AZ. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:56600.



Dot Blot

Cross reactivity test using the Histone H2AZ antibody.

Dot Blot analysis was performed with peptides containing other histone acetylations and the unmodified Histone H2AZ sequence. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:20000. The figure shows a high specificity of the antibody for the modification of interest.

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Product Information

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of Histone H2AZ.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to Histone HAZ, acetylated at lysines 4, 7 a nd 11.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity purification
Recommend Usage	ELISA (1:500) Western Blot (1:1000) ChIP (1 ul/IP) Dot Blot (1:20000) Immunofluorescence (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide, 0.05% proclin 300).
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — H2AFZ	
Entrez GenelD	<u>3015</u>
Protein Accession#	P0C0S5
Gene Name	H2AFZ
Gene Alias	H2A.z, H2A/z, H2AZ, MGC117173
Gene Description	H2A histone family, member Z
Omim ID	<u>142763</u>
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped aro und a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H 4). 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 r eplication-independent member of the histone H2A family that is distinct from other members of th e family. Studies in mice have shown that this particular histone is required for embryonic develop ment and indicate that lack of functional histone H2A leads to embryonic lethality. [provided by Ref Seq
Other Designations	H2AZ histone

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Pathway

• Systemic lupus erythematosus