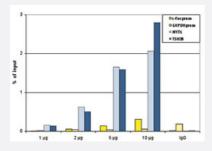


Histone H2A (K119ub) polyclonal antibody

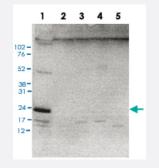
Catalog # PAB31258 Size 50 ug

Applications



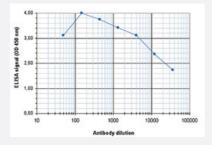
ChIP

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. Quantitative PCR was performed with primers for the promoters of the active GAPDH and c-fos genes, used as negative controls, and for the inactive MYT1 and TSH2B genes, used as a positive controls. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



Western Blot (Cell lysate)

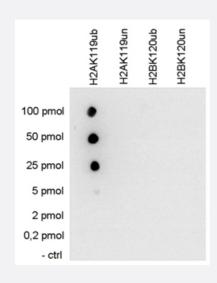
Western Blot (Cell lysate) analysis of (1) 25 ug whole cell extracts of HeLa cells, (2) 1 ug of recombinant histone H2A, (3) 1 ug of recombinant histone H2B, (4) 1 ug of recombinant histone H3, and (5) 1 ug of recombinant histone H4.



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 H2A (K119ub). 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 1:23000.





Dot Blot

Cross reactivity tests using the Histone H2A (K119ub) antibody.

Dot Blot analysis was performed with peptides containing other histone ubiquitinylations and unmodified sequences. 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 and shows a high specificity of the antibody for the modification of interest.

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic peptide of Histone H2A (K119ub).
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to human histone H2A, ubiquitinylated at ly sine 119.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Recommend Usage	ELISA (1:200) Western Blot (1:200) ChIP (2-5 ug/CHIP) Dot Blot (1:20000) 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.

Applications



ChIP

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Gene Info — HIST1H3A	
Entrez GenelD	<u>8350</u>
Protein Accession#	<u>P68431</u>
Gene Name	HIST1H3A
Gene Alias	H3/A, H3FA
Gene Description	histone cluster 1, H3a
Omim ID	<u>602810</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped ar ound a nucleosome, an 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, H 1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA t ails; instead, they contain a palindromic termination element. This gene is found in the large histon e gene cluster on chromosome 6p22-p21.3. [provided by RefSeq





Other Designations

H3 histone family, member A|histone 1, H3a

Pathway

• Systemic lupus erythematosus