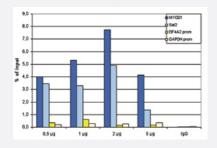
Histone H3 pan polyclonal antibody

Catalog # PAB31272 Size 50 ug

Applications



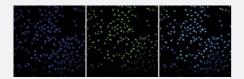


ChIP

ChIP assays were performed using human HeLa cells. A titration consisting of 0.5, 1, 2 and 5 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 specific for the promoters of the active GAPDH and EIF4A2 genes, and for the inactive MYOD1 gene and the Sat2 satellite repeat. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis). Immunoprecipitated DNA compared to input DNA after qPCR analysis.

Western Blot (Cell lysate)

Western Blot (Cell Iysate) 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.

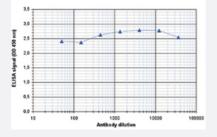


Immunofluorescence

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



Product Information



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 H3 (pan). The plates were coated with the peptides used for immunization. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be > 1:1000000.

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic peptide of Histone H3 pan.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to unmodified sequences at the central pa t and the C-terminus of human histone H3 pan.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Recommend Usage	ELISA (1:10000)
	Western Blot (1:1000)
	ChIP (1-2 ug/CHIP)
	Immunofluorescence (1:500)
	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
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	8350
Protein Accession#	<u>Q93081</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

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Pathway

• Systemic lupus erythematosus