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**Product Name: HIST2H4A(20Me3) Mouse Monoclonal Antibody****Catalog #: AMM81566**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,ELISA,FC
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	11.4kDa

**Antigen Information**

<b>Gene Name</b>	HIST2H4A(20Me3)
<b>Alternative Names</b>	H4; H4/n; H4F2; H4FN; FO108; HIST2H4
<b>Gene ID</b>	8370.0
<b>SwissProt ID</b>	P62805
<b>Immunogen</b>	Synthesized peptide of human HIST2H4A (AA: GGAKRHRK(Me3)VLRDNIQ) .

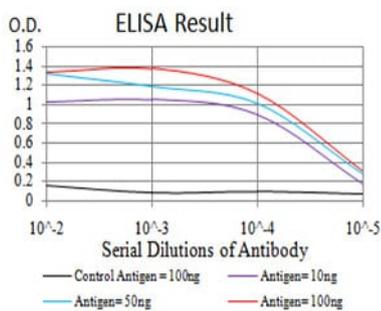
**Background**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around 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

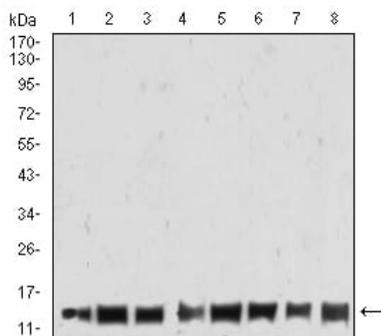
histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

## Research Area

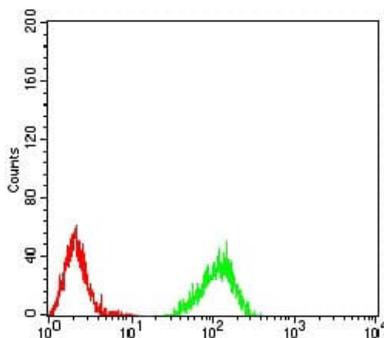
## Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Western blot analysis using HIST2H4A(20Me3) mouse mAb against THP-1 (1), Jurkat (2), K562 (3), NIT/3T3 (4), PC-12 (5), HeLa (6), MCF-7 (7), and A431 (8) cell lysate.



Flow cytometric analysis of Raji cells using HIST2H4A(20Me3) mouse mAb (green) and negative control (red).