

# HMGA1 Rabbit mAb

Catalog No.: A4343

Recombinant

2 Publications

## Basic Information

### Observed MW

18kDa

### Calculated MW

12kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IF/ICC, ELISA, ChIP, ChIP-seq

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC1060

## Background

This gene encodes a chromatin-associated protein involved in the regulation of gene transcription, integration of retroviruses into chromosomes, and the metastatic progression of cancer cells. The encoded protein preferentially binds to the minor groove of AT-rich regions in double-stranded DNA. Multiple transcript variants encoding different isoforms have been found for this gene. Pseudogenes of this gene have been identified on multiple chromosomes.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
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<b>IHC-P</b>	1:50 - 1:200
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<b>IF/ICC</b>	1:50 - 1:200
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<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
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<b>ChIP</b>	3µg antibody for 10µg-15µg of Chromatin
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<b>ChIP-seq</b>	1:50 - 1:100
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## Contact

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## Immunogen Information

### Gene ID

3159

### Swiss Prot

P17096

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-107 of human HMGA1 (P17096).

### Synonyms

HMG-R; HMG1Y; HMGA1A; HMGA1

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

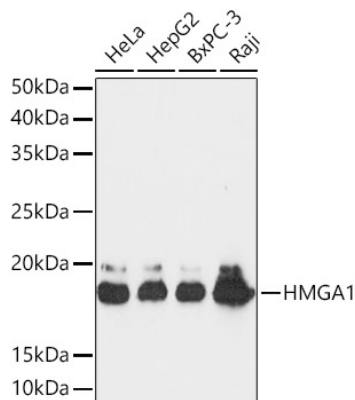
Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.



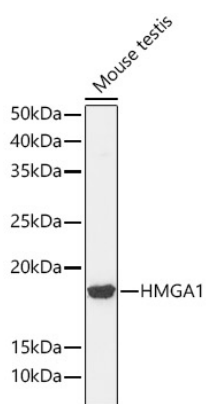
[www.abclonal.com.cn](http://www.abclonal.com.cn)

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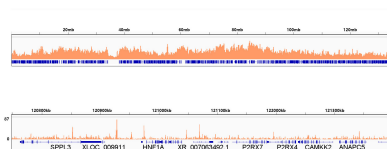
## Validation Data



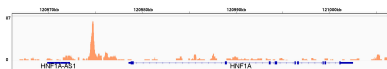
Western blot analysis of various lysates using HMGA1 Rabbit mAb (A4343) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Western blot analysis of lysates from Mouse testis, using HMGA1 Rabbit mAb (A4343) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

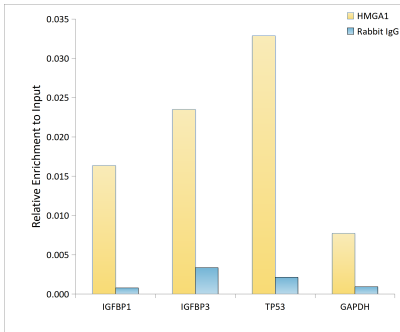


Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from HepG2 cells using 5 µg of HMGA1 Rabbit mAb (A4343). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of HMGA1 across chromosome 12 (upper panel) and the genomic region encompassing HNF1A, a representative gene enriched in HMGA1 (lower panel).

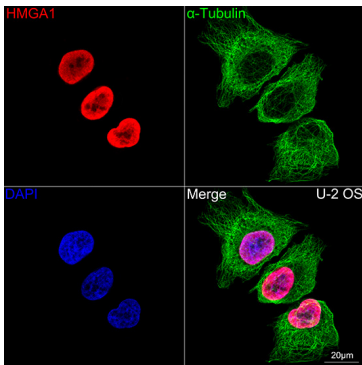


Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from HepG2 cells using 5 µg of HMGA1 Rabbit mAb (A4343). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of HMGA1 in the representative genomic region surrounding HNF1A gene.

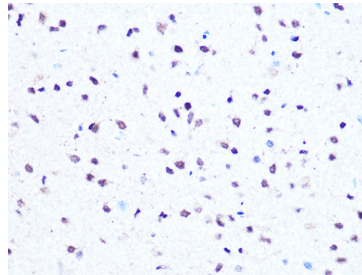
## Validation Data



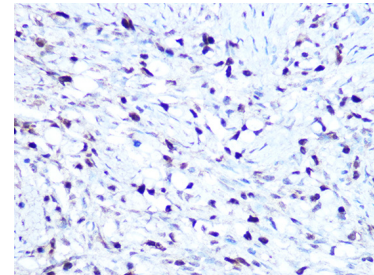
Chromatin immunoprecipitation analysis of extracts from HepG2 cells, using HMGA1 antibody (A4343) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Confocal imaging of U-2 OS cells using HMGA1 Rabbit mAb (A4343, dilution 1:100) (Red). The cells were counterstained with alpha-Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Rat brain using HMGA1 Rabbit mAb (A4343) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human oophoroma using HMGA1 Rabbit mAb (A4343) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.