

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-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

WB 1:1000 - 1:4000

IHC-P 1:2000 - 1:8000

IF/ICC 1:100 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

ChIP-seq 1:50 - 1:100

Immunogen Information

Gene ID

3159

Swiss Prot

P17096

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

HMG-R; HMG1Y; HMGA1A; HMGA1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

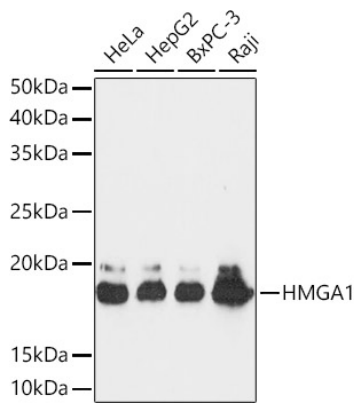
Affinity purification

Storage

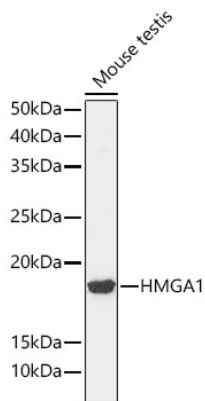
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

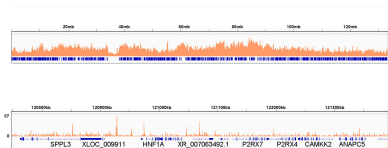
Validation Data



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.

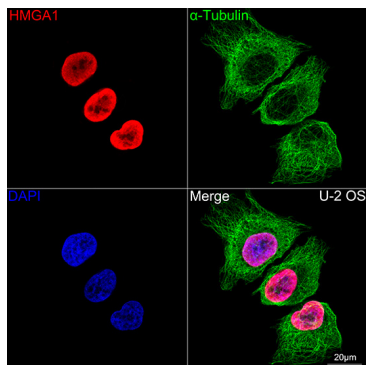


Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from HepG2 cells using 5 µg of HMGA1 Rabbit mAb (A4343). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of HMGA1 across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

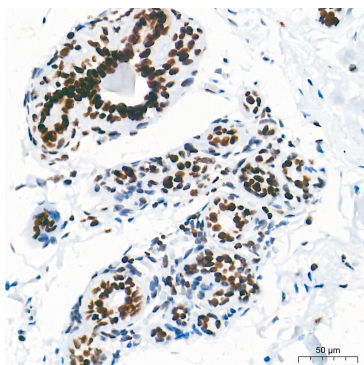


Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from HepG2 cells using 5 µg of HMGA1 Rabbit mAb (A4343). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of HMGA1 in the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

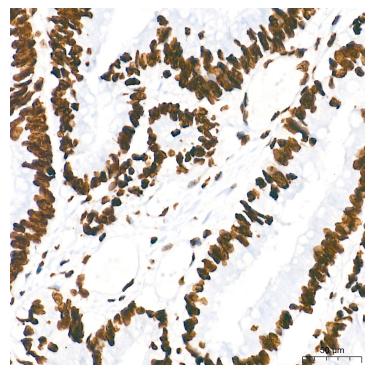
Validation Data



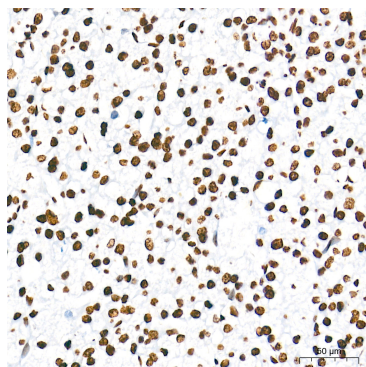
Confocal imaging of U-2 OS cells using HMGA1 Rabbit mAb (A4343, dilution 1:100) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



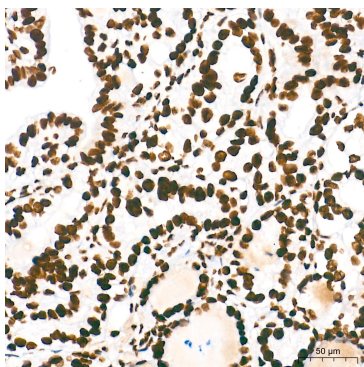
Immunohistochemistry analysis of paraffin-embedded Human breast tissue using HMGA1 Rabbit mAb (A4343) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



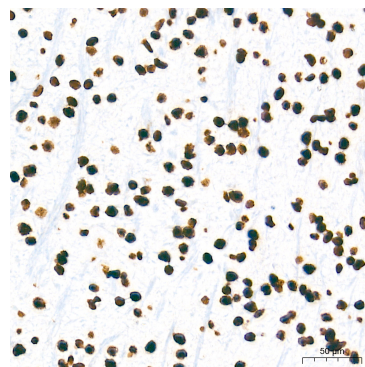
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using HMGA1 Rabbit mAb (A4343) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



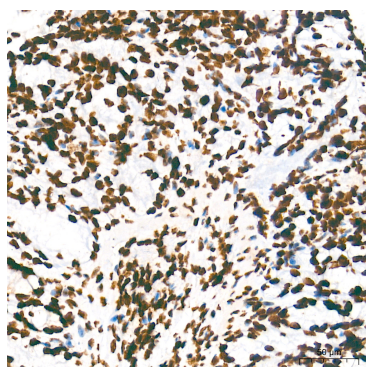
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using HMGA1 Rabbit mAb (A4343) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



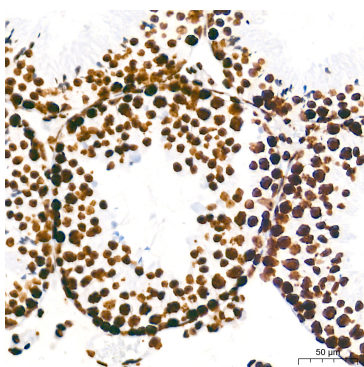
Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using HMGA1 Rabbit mAb (A4343) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



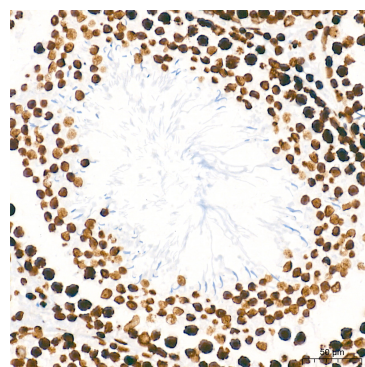
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using HMGA1 Rabbit mAb (A4343) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using HMGA1 Rabbit mAb (A4343) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using HMGA1 Rabbit mAb (A4343) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using HMGA1 Rabbit mAb (A4343) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.