

**HMGA2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5359b****Specification**

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**HMGA2 Antibody (C-term) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">P52926</a>
Other Accession	<a href="#">P52927</a> , <a href="#">NP_003475.1</a> , <a href="#">NP_003474.1</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	11832
Antigen Region	64-92

**HMGA2 Antibody (C-term) - Additional Information****Gene ID** 8091**Other Names**

High mobility group protein HMGI-C, High mobility group AT-hook protein 2, HMGA2, HMGIC

**Target/Specificity**

This HMGA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 64-92 amino acids from the C-terminal region of human HMGA2.

**Dilution**

WB~~1:1000

FC~~1:10~50

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HMGA2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HMGA2 Antibody (C-term) - Protein Information****Name** HMGA2

## Synonyms HMGIC

**Function** Functions as a transcriptional regulator. Functions in cell cycle regulation through CCNA2. Plays an important role in chromosome condensation during the meiotic G2/M transition of spermatocytes. Plays a role in postnatal myogenesis, is involved in satellite cell activation (By similarity). Positively regulates IGF2 expression through PLAG1 and in a PLAG1-independent manner (PubMed:[28796236](#)).

## Cellular Location

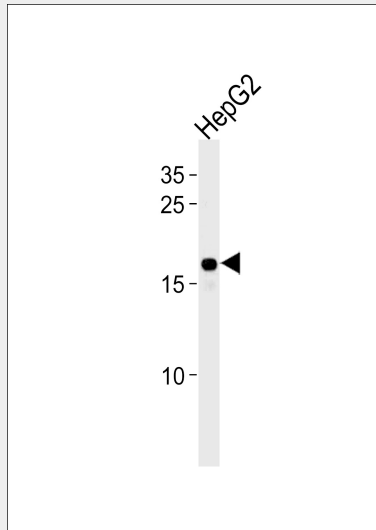
Nucleus.

## HMGA2 Antibody (C-term) - Protocols

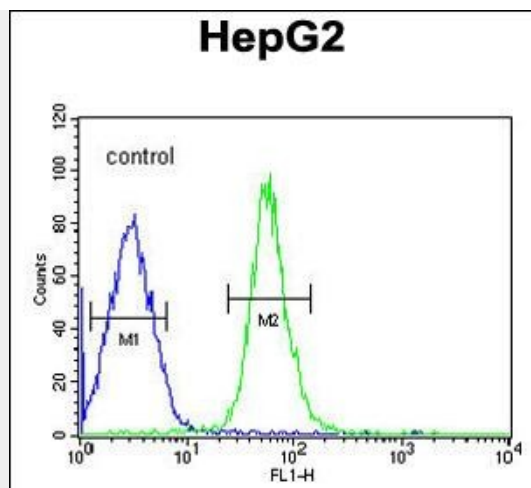
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## HMGA2 Antibody (C-term) - Images



HMGA2 Antibody (C-term) (Cat. #AP5359b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the HMGA2 antibody detected the HMGA2 protein (arrow).



HMGA2 Antibody (C-term) (Cat. #AP5359b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### HMGA2 Antibody (C-term) - Background

This gene encodes a protein that belongs to the non-histone chromosomal high mobility group (HMG) protein family. HMG proteins function as architectural factors and are essential components of the enhancosome. This protein contains structural DNA-binding domains and may act as a transcriptional regulating factor. Identification of the deletion, amplification, and rearrangement of this gene that are associated with myxoid liposarcoma suggests a role in adipogenesis and mesenchymal differentiation. A gene knock out study of the mouse counterpart demonstrated that this gene is involved in diet-induced obesity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

### HMGA2 Antibody (C-term) - References

Mu, G., et al. Hum. Pathol. 41(4):493-502(2010)  
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Tay, Y., et al. Stem Cell Rev 5(4):328-333(2009)  
Schwanbeck, R., et al. J. Biol. Chem. 275(3):1793-1801(2000)  
Chau, K.Y., et al. Nucleic Acids Res. 23(21):4262-4266(1995)  
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Ashar, H.R., et al. Cell 82(1):57-65(1995)  
Schoenmakers, E.F., et al. Genes Chromosomes Cancer 11(2):106-118(1994)  
Manfioletti, G., et al. Nucleic Acids Res. 19(24):6793-6797(1991)

### HMGA2 Antibody (C-term) - Citations

- [Cr \(VI\) induced mitophagy via the interaction of HMGA2 and PARK2](#)
- [HMGA2 upregulation mediates Cd-induced migration and invasion in A549 cells and in lung tissues of mice.](#)