

**HMG2 Antibody (Ascites)**  
**Mouse Monoclonal Antibody (Mab)**  
Catalog # AM2077a**Specification**

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**HMG2 Antibody (Ascites) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P52926</a>
Other Accession	<a href="#">P52927</a> , <a href="#">NP_003474.1</a>
Reactivity	Human
Predicted	Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	11832
Antigen Region	64-92

**HMG2 Antibody (Ascites) - 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 HMG2 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 64-92 amino acids from human HMG2.

**Dilution**

WB~~1:500~8000

**Format**

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

**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**

HMG2 Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

**HMG2 Antibody (Ascites) - 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**

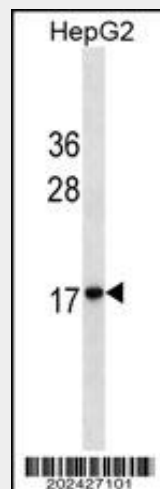
Nucleus.

#### **HMG2 Antibody (Ascites) - 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](#)

#### **HMG2 Antibody (Ascites) - Images**



HMG2 Antibody (Cat. #AM2077a) western blot analysis in HepG2 cell line lysates (35µg/lane). This demonstrates the HMG2 antibody detected the HMG2 protein (arrow).

#### **HMG2 Antibody (Ascites) - 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.

### **HMG2 Antibody (Ascites) - References**

Markowski, D.N., et al. Cancer Genet. Cytogenet. 202(1):53-57(2010)

Velagaleti, G.V., et al. Cancer Genet. Cytogenet. 202(1):11-16(2010)

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)

Liu, Y., et al. Carcinogenesis 31(10):1762-1769(2010)

Voight, B.F., et al. Nat. Genet. 42(7):579-589(2010)