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# HMG2 Antibody (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2077a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | P52926 |
| **Other Accession** | P52927, NP_003474.1 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2b |
| **Clone Names** | 523ct16.1.1 |
| **Calculated MW** | 11832 |
| **Antigen Region** | 64-92 |

## Additional Information

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| **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 E~~Use at an assay dependent concentration. |
| **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. |

## Protein Information

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| **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 |

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| | 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. |

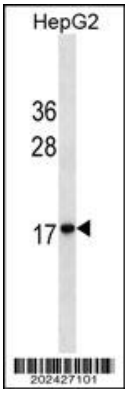
## Background

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 enhancesome. 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.

## 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)


## 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).


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.