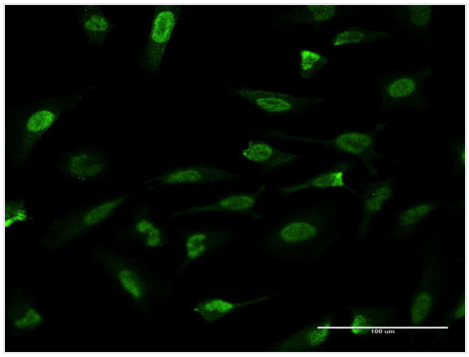
HMGA2 Antibody – Mouse Monoclonal

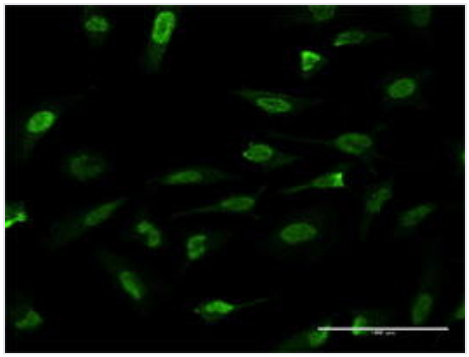
PRODUCT OVERVIEW

Product Name	HMGA2, Monoclonal Antibody
Full Product Name	HMGA2 (High Mobility Group AT-hook 2, BABL, HMGI-C, HMGIC, LIPO, STQTL9) (AP)
Product Gene Name	anti-HMGA2 antibody
Product Synonym Names	High Mobility Group AT-hook 2; BABL; HMGI-C; HMGIC; LIPO; STQTL9
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2D3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes HMGA2.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	12.8 kDa (117aa)
OMIM	gene 611547
3D Structure	ModBase 3D Structure for P52926
Immunogen	HMGA2 (NP_003474, 1aa-92aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MSARGEGAGQPSTSAQGQPAAPAPQKRGRGRPRKQQQEPTGEPSPKRPRGRPKGSKNKSPSKAAQKKAEATGEKRPRGRPRKWPQQVVQKKP
Conjugate	AP
Product Categories/Family for anti-HMGA2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-HMGA2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-HMGA2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-HMGA2 antibody	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. [provided by RefSeq]
Other Notes	Small volumes of anti-HMGA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HMGA2 purchase	MBS6165331 is an antibody targeting HMGA2. Also known as HMGA2 (High Mobility Group AT-hook 2, BABL, HMGI-C, HMGIC, LIPO, STQTL9) (AP). Host: Mouse.



Immunofluorescence (IF) of anti-HMGA2 antibody
Immunofluorescence of monoclonal antibody to HMGA2 on HeLa cell. [antibody concentration 10 ug/ml]



Immunofluorescence (IF) of anti-HMGA2 antibody
Immunofluorescence of monoclonal antibody to HMGA2 on HeLa cell. [antibody concentration 10 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMGA2. It may not necessarily be applicable to this product.

NCBI GI #	4504431
NCBI GeneID	8091
NCBI Accession #	NP_003474
UniProt Primary Accession #	P52926
UniProt Secondary Accession #	Q1M182; Q1M185; Q1M186; Q1M187; Q1M188; E7EP85; E7EWA2
UniProt Related Accession #	P52926
GenBank Nucleotide #	NM_003483.4
NCBI Official Full Name	high mobility group protein HMGI-C isoform a
NCBI Official Synonym Full Names	high mobility group AT-hook 2
NCBI Official Symbol	HMGA2
NCBI Official Synonym Symbols	BABL; LIPO; HMGIC; HMGI-C; STQTL9
UniProt Protein Name	High mobility group protein HMGI-C
UniProt Synonym Protein Names	High mobility group AT-hook protein 2
Protein Family	High mobility group protein
UniProt Gene Name	HMGA2
UniProt Synonym Gene Names	HMGIC
UniProt Entry Name	HMGA2_HUMAN

NCBI Protein Information	high mobility group protein HMGI-C
UniProt Comments for HMGA2	HMGA2: 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. Interacts with E4F1. Interacts with NEK2. Belongs to the HMGA family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Oncoprotein Chromosomal Location of Human Ortholog: 12q15 Cellular Component: nucleoplasm; nuclear chromosome; nucleus Molecular Function: protein binding; nucleosomal DNA binding; DNA-(apurinic or apyrimidinic site) lyase activity; DNA binding; AT DNA binding; DNA-dependent protein kinase activity; 5'-deoxyribose-5-phosphate lyase activity; SMAD binding; DNA bending activity; transcription factor binding Biological Process: fat cell differentiation; establishment and/or maintenance of chromatin architecture; positive regulation of apoptosis; multicellular organismal development; positive regulation of transcription, DNA-dependent; mesodermal cell differentiation; negative regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; base-excision repair; regulation of growth; chondrocyte differentiation; negative regulation of retroviral genome replication; mitosis; transcription, DNA-dependent; heterochromatin formation; response to virus; DNA damage response, detection of DNA damage; stem cell differentiation; DNA catabolic process, endonucleolytic; negative regulation of DNA binding; chromosome condensation; mesenchymal cell differentiation; cell division; mitotic cell cycle G2/M transition DNA damage checkpoint; chromosome breakage; epithelial to mesenchymal transition; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; negative regulation of apoptosis Disease: Leiomyoma, Uterine
Research Articles on HMGA2	**1.** HMGA2 expression is associated with a risk increase for adverse outcomes in patients with HNSCC of the larynx and oral cavity.
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