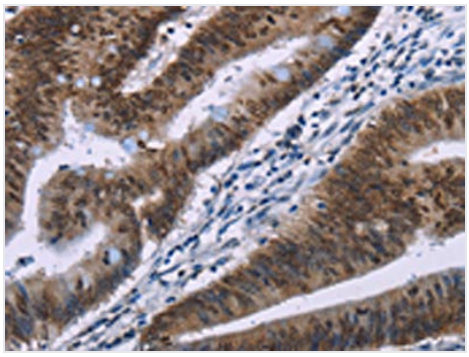
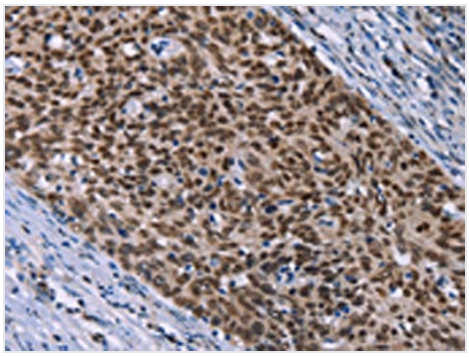
HMGA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HMGA1, Polyclonal Antibody
Full Product Name	HMGA1 Antibody
Product Gene Name	anti-HMGA1 antibody
Product Synonym Names	high mobility group AT-hook 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	11,676 Da
OMIM	600701
3D Structure	ModBase 3D Structure for P17096
Immunogen	Synthetic peptide of human HMGA1
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-HMGA1 antibody	Microbiology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HMGA1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-HMGA1 antibody	ELISA: 1:2000-1:10000 IHC: 1:50-1:200
Related Product Information for anti-HMGA1 antibody	MBS7127344 is an antibody targeting HMGA1. Also known as HMGA1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-HMGA1 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.



Immunohistochemistry (IHC)-Paraffin of anti-HMGA1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using MBS7127344(HMGA1 Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-HMGA1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using MBS7127344(HMGA1 Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMGA1. It may not necessarily be applicable to this product.

NCBI GI #	123377
NCBI GeneID	3159
NCBI Accession #	P17096.3
UniProt Primary Accession #	P17096
UniProt Secondary Accession #	P10910; Q5T6U9; Q9UKB0
UniProt Related Accession #	P17096
NCBI Official Full Name	High mobility group protein HMG-I/HMG-Y
NCBI Official Synonym Full Names	high mobility group AT-hook 1
NCBI Official Symbol	HMGA1
NCBI Official Synonym Symbols	HMG-R; HMGIY; HMGA1A
UniProt Protein Name	High mobility group protein HMG-I/HMG-Y
UniProt Synonym Protein Names	High mobility group AT-hook protein 1; High mobility group protein A1; High mobility group protein R
Protein Family	High mobility group protein
UniProt Gene Name	HMGA1
UniProt Synonym Gene Names	HMGIY; HMG-I(Y)
UniProt Entry Name	HMGA1_HUMAN
NCBI Protein Information	high mobility group protein HMG-I/HMG-Y; HMG-I(Y); high mobility group protein R; high mobility group protein A1; nonhistone chromosomal high-mobility group protein HMG-I/HMG-Y; high-mobility group (nonhistone chromosomal) protein isoforms I and Y
NCBI Summary for HMGA1	This gene encodes a non-histone protein involved in many cellular processes, including regulation of inducible gene transcription, integration of retroviruses into chromosomes, and the metastatic progression of cancer cells. The encoded protein preferentially binds to the minor groove of A+T-rich regions in double-stranded DNA. It has little secondary structure in solution but assumes distinct conformations when bound to substrates such as DNA or other proteins. The encoded protein is frequently acetylated and is found in the nucleus. At least seven transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for HMGA1	HMGA1: HMG-I/Y bind preferentially to the minor groove of A+T rich regions in double stranded DNA. It is suggested that these proteins could function in nucleosome phasing and in the 3'-end processing of mRNA transcripts. They are also involved in the transcription regulation of genes containing, or in close proximity to A+T-rich regions. A chromosomal aberration involving HMGA1 is found in pulmonary chondroid hamartoma. Translocation t(6;14)(p21;q23-24) with RAD51B. Belongs to the HMGA family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p21 Cellular Component: nucleoplasm; transcription factor complex; focal adhesion; cytosol; nucleus Molecular Function: retinoid X receptor binding; protein binding; peroxisome proliferator activated receptor binding; enzyme binding; DNA-(apurinic or apyrimidinic site) lyase activity; ligand-dependent nuclear receptor transcription coactivator activity; DNA binding; AT DNA binding; retinoic acid receptor binding; 5'-deoxyribose-5-phosphate lyase activity; transcription factor binding Biological Process: DNA unwinding during replication; viral reproduction; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; response to virus; DNA catabolic process, endonucleolytic; negative regulation of cell proliferation; nucleosome disassembly; regulation of transcription, DNA-dependent; negative regulation of chromatin silencing; base-excision repair; protein complex assembly; negative regulation of transcription, DNA-dependent
Research Articles on HMGA1	**1.** Results support a model in which the HMGA1/TAR interaction prevents the binding of transcription-activating cellular co-factors and Tat, subsequently leading to reduced HIV-1 transcription.
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