

**Goat Anti-HMGA1 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1532b****Specification**

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**Goat Anti-HMGA1 Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P17096</a>
Other Accession	<a href="#">NP_665910</a> , <a href="#">3159</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	11676

**Goat Anti-HMGA1 Antibody - Additional Information****Gene ID** 3159**Other Names**

High mobility group protein HMG-I/HMG-Y, HMG-I(Y), High mobility group AT-hook protein 1, High mobility group protein A1, High mobility group protein R, HMGA1, HMG1Y

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-HMGA1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-HMGA1 Antibody - Protein Information****Name** HMGA1**Synonyms** HMG1Y**Function**

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.

#### **Cellular Location**

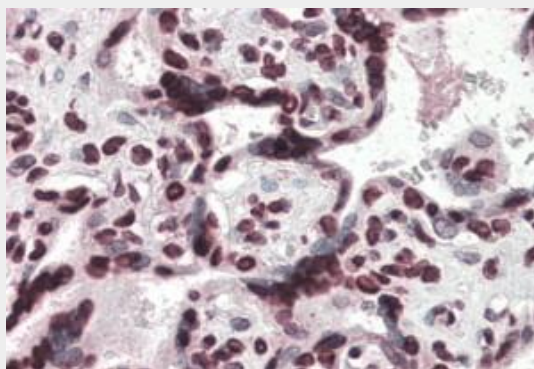
Nucleus. Chromosome.

#### **Goat Anti-HMGA1 Antibody - 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](#)

#### **Goat Anti-HMGA1 Antibody - Images**



AF1532b (4 µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **Goat Anti-HMGA1 Antibody - Background**

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.

#### **Goat Anti-HMGA1 Antibody - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

The role of height-associated loci identified in genome wide association studies in the determination of pediatric stature. Zhao J, et al. BMC Med Genet, 2010 Jun 14. PMID 20546612.

High-mobility group A1 proteins regulate p53-mediated transcription of Bcl-2 gene. Esposito F, et al. Cancer Res, 2010 Jul 1. PMID 20530667.

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

The expression of HMGA1a is increased in lymphoblastoid cell lines from schizophrenia patients.

Morikawa T, et al. Neurochem Int, 2010 May-Jun. PMID 20347905.