

Goat Anti-HMGA1 (aa9-21) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1532a

Specification

Goat Anti-HMGA1 (aa9-21) Antibody - Product Information

Application	WB
Primary Accession	P17096
Other Accession	NP_002122 , 3159 , 15361 (mouse) , 117062 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	11676

Goat Anti-HMGA1 (aa9-21) 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 (aa9-21) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-HMGA1 (aa9-21) 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

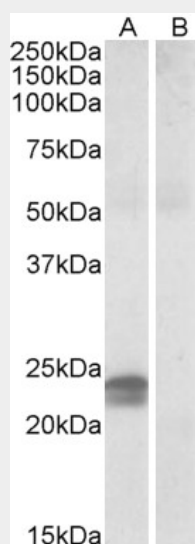
Nucleus. Chromosome.

Goat Anti-HMGA1 (aa9-21) 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 (aa9-21) Antibody - Images



AF1532a (0.5 $\mu\text{g/ml}$) staining of Human Pancreas lysate (35 μg protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-HMGA1 (aa9-21) 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 (aa9-21) Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-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.