ARG63816
anti-HMGA1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes HMGA1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Pig
Tested Application	IHC-P
Specificity	This antibody is expected to recognise isoform a (also called HMG-I; NP_665906.1; NP_665908.1) and isoform b (also called HMG-Y; NP_002122.1; NP_665909.1; NP_665910.1; NP_665912.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	HMGA1
Species	Human
Immunogen	C-LASKQEKDGTEK
Conjugation	Un-conjugated
Alternate Names	HMG-I; High mobility group protein HMG-I/HMG-Y; High mobility group protein A1; High mobility group protein R; Y; High mobility group AT-hook protein 1; HMG-R; HMGA1A; HMGIY

Application Instructions

Application table

Application	Dilution
IHC-P	4 µg/ml

Application Note: IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

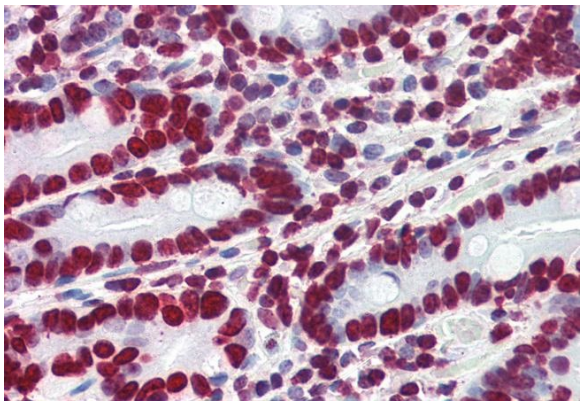
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

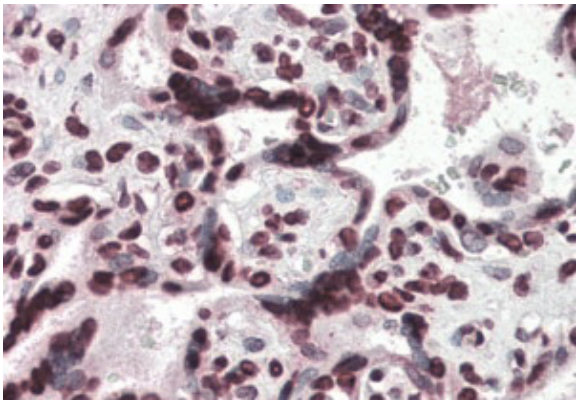
Database links	GeneID: 3159 Human Swiss-port # P17096 Human
Background	This gene encodes a non-histone protein involved in many cellular processes, including regulation of inducible gene transcription, integration of retroviruses into chromosomes, and the metastatic progression of cancer cells. The encoded 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. [provided by RefSeq, Jul 2008]
Research Area	Cancer antibody; Gene Regulation antibody; Microbiology and Infectious Disease antibody
Calculated Mw	12 kDa
PTM	Constitutively phosphorylated on two or three sites. Hyperphosphorylated at early stages of apoptosis, followed by dephosphorylation and methylation, which coincides with chromatin condensation. Isoforms HMG-I and HMG-Y can be phosphorylated by HIPK2. Phosphorylation of HMG-I at Ser-36, Thr-53 and Thr-78 and of HMG-Y at Thr-42 and Thr-67 by HIPK2 modulates DNA-binding affinity. HMG-Y is not methylated. Methylation at Arg-58 is mutually exclusive with methylation at Arg-60.

Images



ARG63816 anti-HMGA1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human small intestine tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63816 anti-HMGA1 antibody at 4 µg/ml dilution followed by AP-staining.



ARG63816 anti-HMGA1 antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Placenta. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63816 anti-HMGA1 antibody at 4 µg/ml dilution followed by AP-staining.