



Rabbit Anti-HMGA2 antibody

SL0556R

Product Name:	HMGA2
Chinese Name:	高迁移率族蛋白A2抗体
Alias:	HMGA 2; BABL; High mobility group (nonhistone chromosomal) protein isoform I C; High mobility group (nonhistone chromosomal) protein isoform IC; High Mobility Group AT hook 2; High Mobility Group AT hook protein 2; High mobility group protein HMGI C; High mobility group protein HMGIC; High mobility group protein I, isoform C; HMGA 2; HMGI C; HMGIC; LIPO; Non histone chromosomal architectural protein HMGI C; Non histone chromosomal architectural protein HMGIC; Pygmy; STQTL9; HMGA2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	12kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HMGA2:41-109/109
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 enhancosome. 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.

Function:

Functions as a transcriptional regulator. Functions in cell cycle regulation through CCNA2.

Subunit:

Interacts with E4F1. Interacts with NEK2 (By similarity).

Subcellular Location:

Nucleus.

Post-translational modifications:

Regulated by cell cycle-dependent phosphorylation which alters its DNA binding affinity. Phosphorylated by NEK2.

DISEASE:

Note=A chromosomal aberration involving HMGA2 is associated with a subclass of benign mesenchymal tumors known as lipomas. Translocation t(3;12)(q27-q28;q13-q15) with LPP is shown in lipomas. HMGA2 is also fused with a number of other genes in lipomas.

Note=A chromosomal aberration involving HMGA2 is associated with pulmonary chondroid hamartomas. Translocation t(3;12)(q27-q28;q14-q15) with LPP is detected in pulmonary chondroid hamartomas.

Note=A chromosomal aberration involving HMGA2 is associated with parosteal lipomas. Translocation t(3;12)(q28;q14) with LPP is also shown in one parosteal lipoma.

Note=A chromosomal aberration involving HMGA2 is found in uterine leiomyoma. Translocation t(12;14)(q15;q23-24) with RAD51B. Chromosomal rearrangements involving HMGA2 do not seem to be the principle pathobiological mechanism in uterine leiomyoma.

Similarity:

Belongs to the HMGA family.

Contains 3 A.T hook DNA-binding domains.

SWISS:

P52926

Gene ID:

8091

Database links:

[Entrez Gene: 8091](#)Human

[Entrez Gene: 15364](#)Mouse

[Oimim: 600698](#)Human

[SwissProt: P52926](#)Human

[SwissProt: P52927](#)Mouse

[Unigene: 505924](#)Human

[Unigene: 157190](#)Mouse

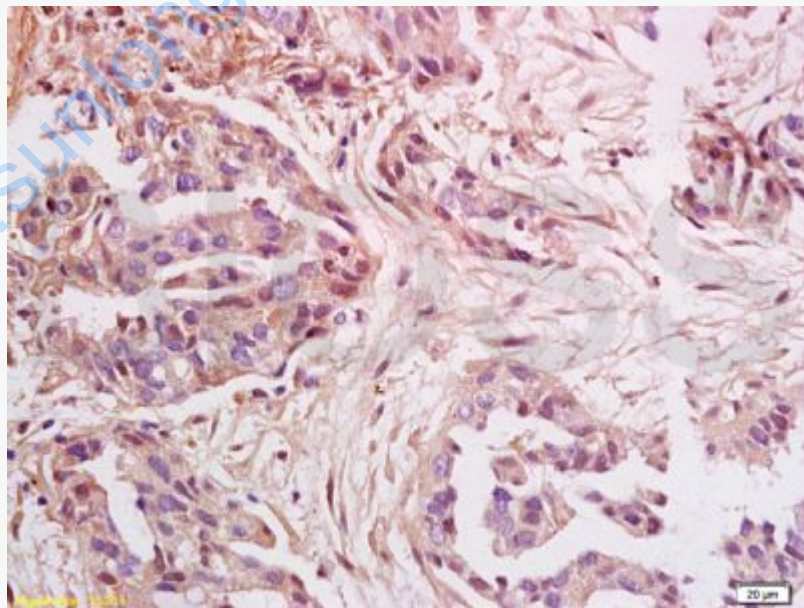
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

HMGA-2高迁移率蛋白A-

2: 也是目前特异Tumour标记物, 主要用于Tumour方面的研究。

Picture:



Tissue/cell: human ovary carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block

endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-HMGA2 Polyclonal Antibody, Unconjugated(SL0556R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

www.sunlongbiotech.com