

## 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.

**Research Area** Tumour Binding protein Cell type markers

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human, (predicted: Mouse, Rat, Chicken, )

**Applications** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 12kDa

**Cellular localization** The nucleus

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human HMGA2: 41-109/109

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention**

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

**PubMed**

[PubMed](#)

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.

**Product  
Detail**

**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

[Omim: 600698](#) Human

[SwissProt: P52926](#) Human

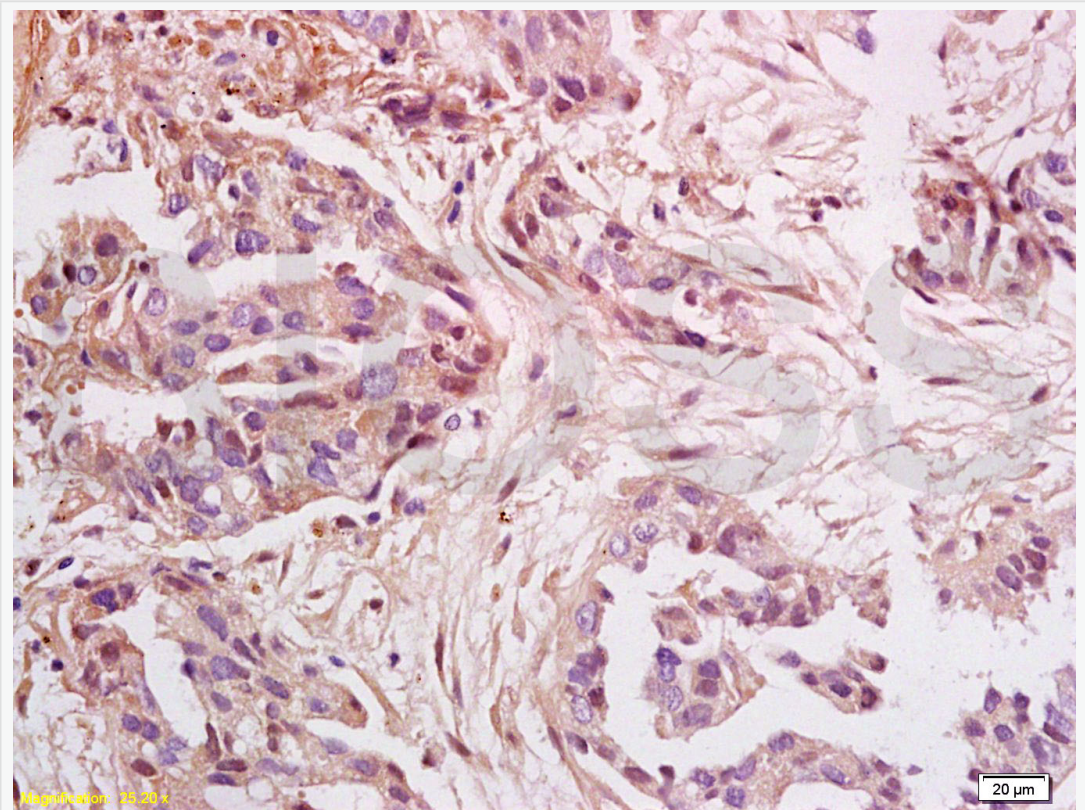
[SwissProt: P52927](#) Mouse

[Unigene: 505924](#) Human

[Unigene: 157190](#) Mouse

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。

**Product  
Picture**



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

Antigen retrieval: citrate buffer ( 1M, 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