

## Product datasheet

# Anti-HMGA2 antibody ab97276

★★★★☆ 3 Abreviews 5 References 5 Images

### Overview

<b>Product name</b>	Anti-HMGA2 antibody
<b>Description</b>	Rabbit polyclonal to HMGA2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, IP, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat
<b>Immunogen</b>	Recombinant fragment, corresponding to a region within N terminal amino acids 1 - 93 of Human HMGA2 (NP_003474).
<b>Positive control</b>	MOLT4 whole cell lysate, MCF7 cells, HepG2, HCT116, HeLa

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 0.1M Tris, 0.1M Glycine, pH 7.0
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab97276** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.
IP		1/100 - 1/500.

Application	Abreviews	Notes
WB	★★★★☆	1/500 - 1/3000. Predicted molecular weight: 12 kDa.
ICC/IF		Use a concentration of 1 µg/ml.

## Target

### Function

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

### Involvement in 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 RAD51L1. Chromosomal rearrangements involving HMGA2 do not seem to be the principle pathobiological mechanism in uterine leiomyoma.

### Sequence similarities

Belongs to the HMGA family.

Contains 3 A.T hook DNA-binding domains.

### Developmental stage

Expressed predominantly during embryogenesis.

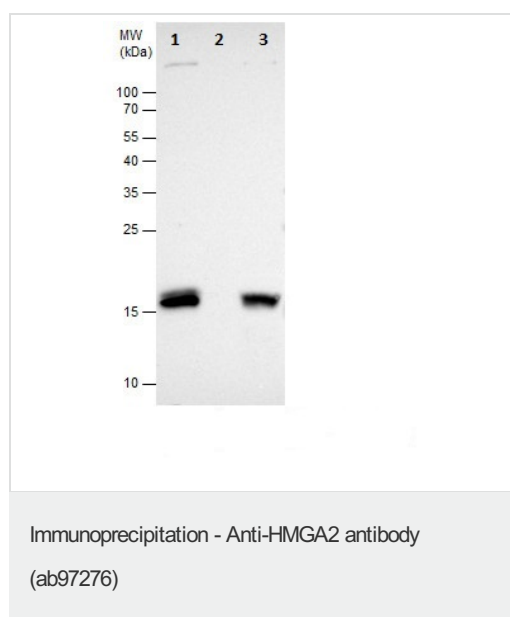
### Post-translational modifications

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

### Cellular localization

Nucleus.

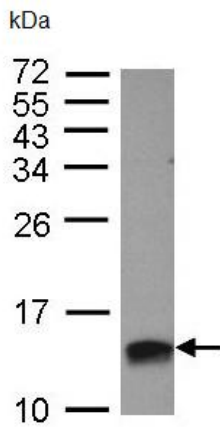
## Images



Lane 1: Input

Lane 2: Immunoprecipitation using control IgG

Lane 3: Immunoprecipitation using 5 µg ab97276

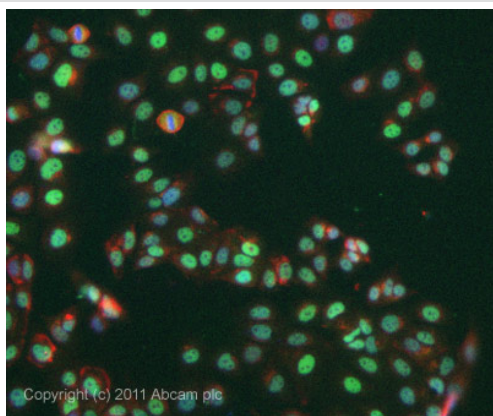


Western blot - Anti-HMGA2 antibody (ab97276)

Anti-HMGA2 antibody (ab97276) at 1/1000 dilution + MOLT4 whole cell lysate at 30 µg

**Predicted band size:** 12 kDa

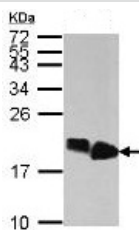
15% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-HMGA2 antibody (ab97276)

ICC/IF image of ab97276 stained MCF7 cells.

The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab97276, 1 µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96899](#), DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - Anti-HMGA2 antibody (ab97276)

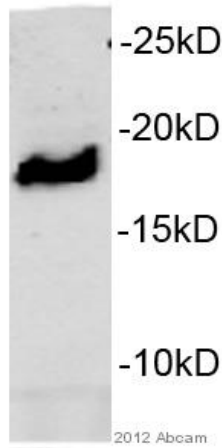
**All lanes :** Anti-HMGA2 antibody (ab97276) at 1/10000 dilution

**Lane 1 :** HepG2

**Lane 2 :** HCT116

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 12 kDa



Anti-HMGA2 antibody (ab97276) at 1/1000 dilution + HeLa whole cell lysate at 25 µg

**Secondary**

Goat anti rabbit secondary IRDye 800CW at 1/1000 dilution

**Predicted band size:** 12 kDa

**Observed band size:** 18 kDa

Western blot - Anti-HMGA2 antibody (ab97276)

This image is courtesy of an anonymous abreview.

**Exposure time:** 10 minutes

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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