

## Product datasheet

# Anti-HMGA2 antibody ab97276

★★★★☆ [3 Abreviews](#) [45 References](#) [14 Images](#)

### Overview

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<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> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human HMGA2 aa 1-93 (N terminal). Database link: <a href="#">P52926</a>
<b>Positive control</b>	WB: MOLT-4, HepG2, HCT116, HeLa, A431, NIH/3T3, Raw264.7, C2C12, PC-12, Rat2 whole cell lysate. IP: HepG2 cells. ICC/IF: MCF7, HeLa cells. IHC-P: Rat brain, rat duodenum, human HuCCT1 xenograft, C2C12 xenograft.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

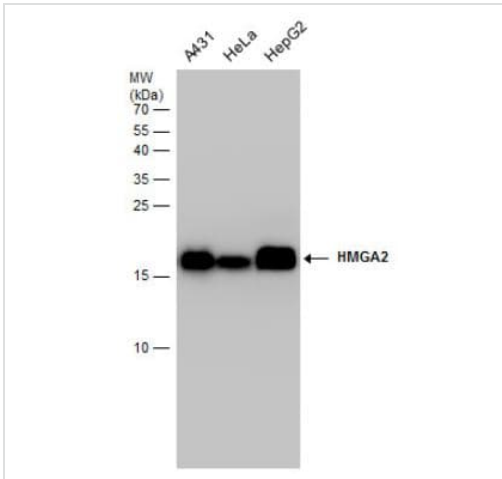
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab97276 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.
IP		1/100 - 1/500.
WB	★★★★★ (2)	1/500 - 1/50000. Predicted molecular weight: 12 kDa.
ICC/IF		Use a concentration of 1 µg/ml.

## Target

<b>Function</b>	Functions as a transcriptional regulator. Functions in cell cycle regulation through CCNA2.
<b>Involvement in disease</b>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<b>Sequence similarities</b>	<p>Belongs to the HMGA family.</p> <p>Contains 3 A.T hook DNA-binding domains.</p>
<b>Developmental stage</b>	Expressed predominantly during embryogenesis.
<b>Post-translational modifications</b>	Regulated by cell cycle-dependent phosphorylation which alters its DNA binding affinity.
<b>Cellular localization</b>	Nucleus.

## Images



Western blot - Anti-HMGA2 antibody (ab97276)

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

**Lane 1 :** A431 whole cell extract

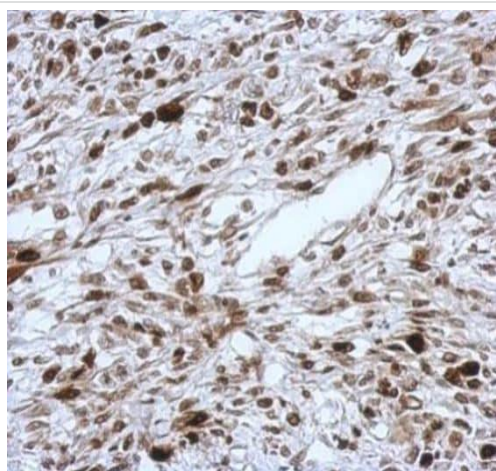
**Lane 2 :** HeLa whole cell extract

**Lane 3 :** HepG2 whole cell extract

Lysates/proteins at 30 µg per lane.

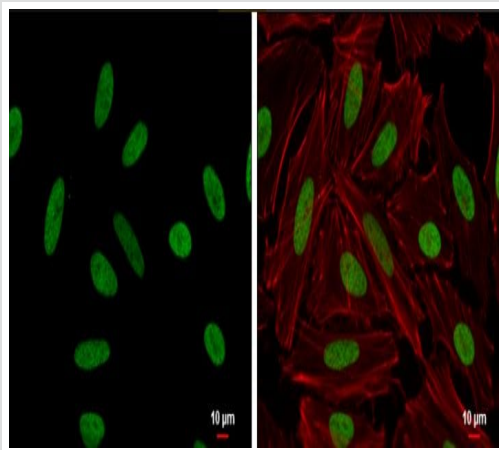
**Predicted band size:** 12 kDa

15% SDS-PAGE



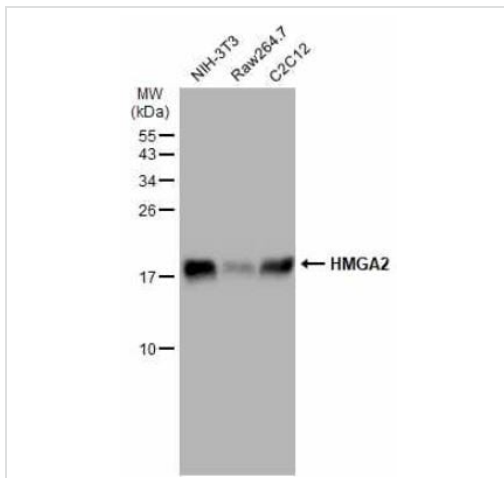
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA2 antibody (ab97276)

Paraffin embedded C2C12 xenograft tissue stained for HMGA2 using ab97276 at 1/500 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-HMGA2 antibody (ab97276)

HeLa cells stained for HMGA2 (green) using ab97276 at 1/500 dilution in ICC/IF.



Western blot - Anti-HMGA2 antibody (ab97276)

**All lanes** : Anti-HMGA2 antibody (ab97276) at 1/1000 dilution

**Lane 1** : NIH/3T3 whole cell extract

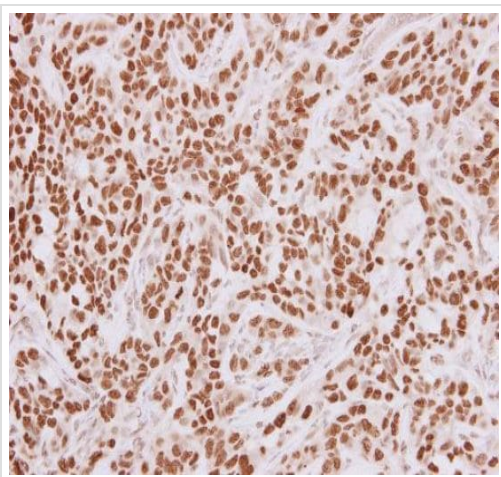
**Lane 2** : Raw264.7 whole cell extract

**Lane 3** : C2C12 whole cell extract

Lysates/proteins at 30 µg per lane.

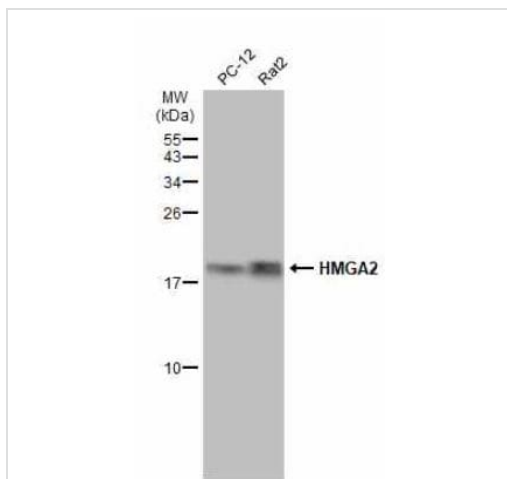
**Predicted band size:** 12 kDa

15% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA2 antibody (ab97276)

Paraffin embedded human HuCCT1 xenograft tissue stained for HMGA2 using ab97276 at 1/250 dilution in immunohistochemical analysis.



Western blot - Anti-HMGA2 antibody (ab97276)

**All lanes** : Anti-HMGA2 antibody (ab97276) at 1/1000 dilution

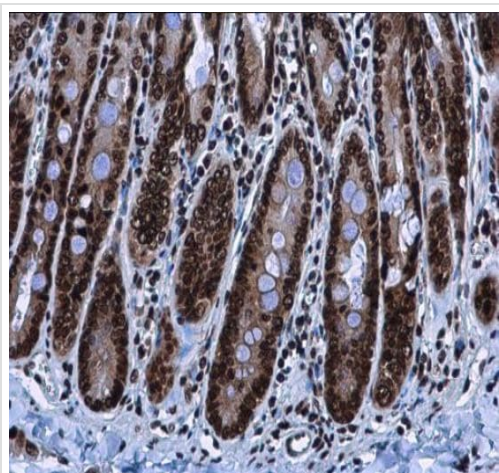
**Lane 1** : PC-12 whole cell extract

**Lane 2** : Rat2 whole cell extract

Lysates/proteins at 30 µg per lane.

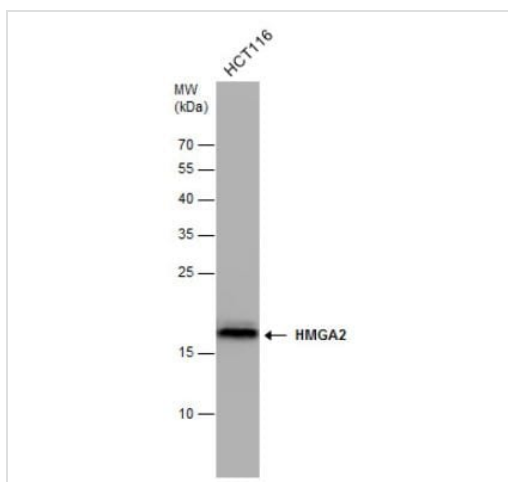
**Predicted band size:** 12 kDa

15% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA2 antibody (ab97276)

Paraffin embedded rat duodenum tissue stained for HMGA2 using ab97276 at 1/500 dilution in immunohistochemical analysis.

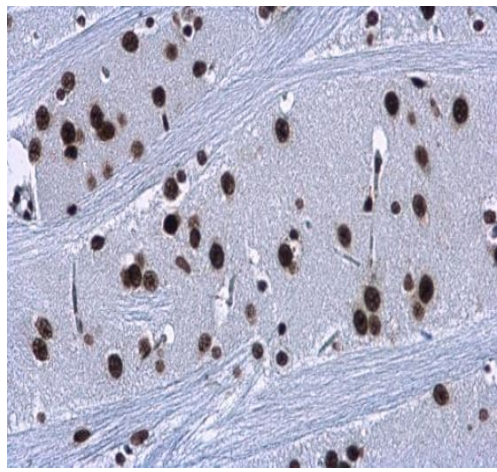


Western blot - Anti-HMGA2 antibody (ab97276)

Anti-HMGA2 antibody (ab97276) at 1/10000 dilution + HCT116 whole cell extract at 30  $\mu$ g

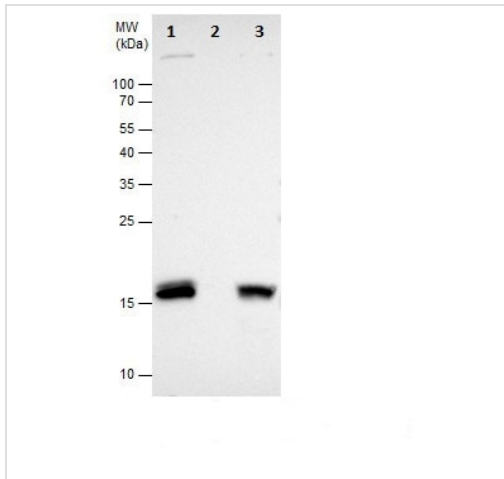
**Predicted band size: 12 kDa**

15% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA2 antibody (ab97276)

Paraffin embedded rat brain tissue stained for HMGA2 using ab97276 at 1/500 dilution in immunohistochemical analysis.



Immunoprecipitation - Anti-HMGA2 antibody (ab97276)

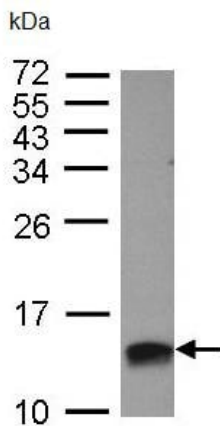
Immunoprecipitation of HMGA2 protein from HepG2 nuclear extracts using 5 µg of HMGA2 antibody. Western blot analysis was performed using HMGA2 antibody at 1/500 dilution. EasyBlot anti-Rabbit IgG was used as a secondary reagent.

Lane 1: Input

Lane 2: Immunoprecipitation using control IgG

Lane 3: Immunoprecipitation using 5 µg ab97276



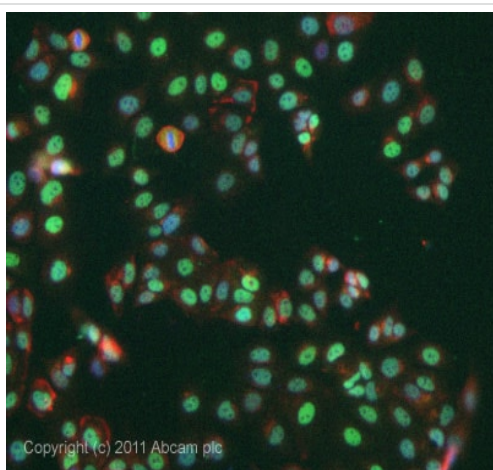


Western blot - Anti-HMGA2 antibody (ab97276)

Anti-HMGA2 antibody (ab97276) at 1/1000 dilution + MOLT-4 whole cell lysate at 30 µg

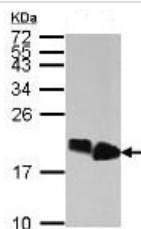
**Predicted band size:** 12 kDa

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, 1µg/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

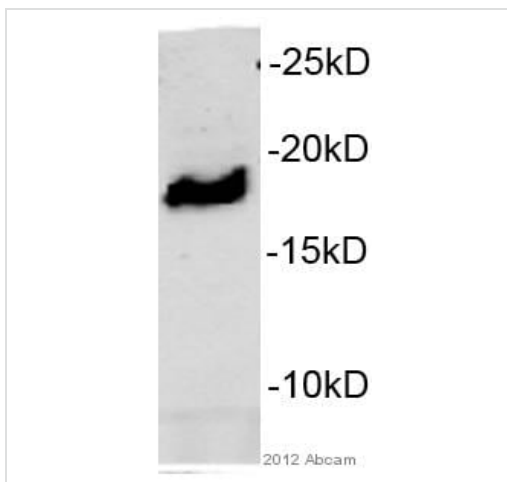
**Lane 1 :** HepG2

**Lane 2 :** HCT116

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 12 kDa





Western blot - Anti-HMGA2 antibody (ab97276)

This image is courtesy of an anonymous abreview.

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

**Exposure time:** 10 minutes

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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