

Product datasheet

Anti-HMGA2 antibody ab97276

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

Overview

Product name	Anti-HMGA2 antibody
Description	Rabbit polyclonal to HMGA2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, IP, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human HMGA2 aa 1-93 (N terminal). Database link: P52926
Positive control	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.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

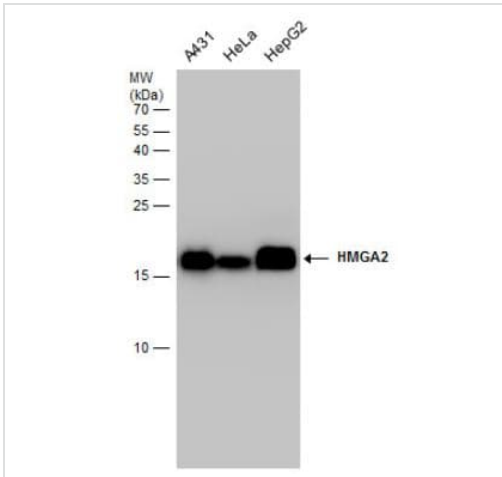
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab97276 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Function	Functions as a transcriptional regulator. Functions in cell cycle regulation through CCNA2.
Involvement in disease	<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>
Sequence similarities	<p>Belongs to the HMGA family.</p> <p>Contains 3 A.T hook DNA-binding domains.</p>
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



Western blot - Anti-HMGA2 antibody (ab97276)

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

Lane 1 : A431 whole cell extract

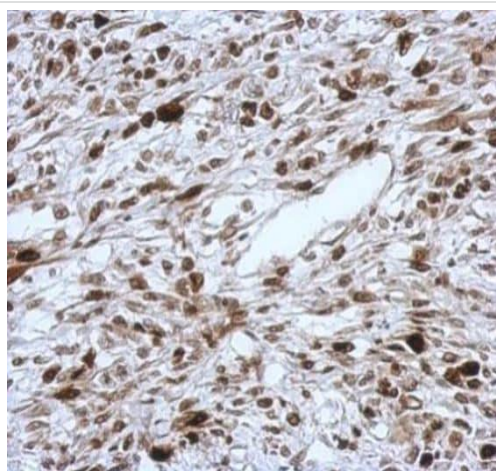
Lane 2 : HeLa whole cell extract

Lane 3 : HepG2 whole cell extract

Lysates/proteins at 30 μ g per lane.

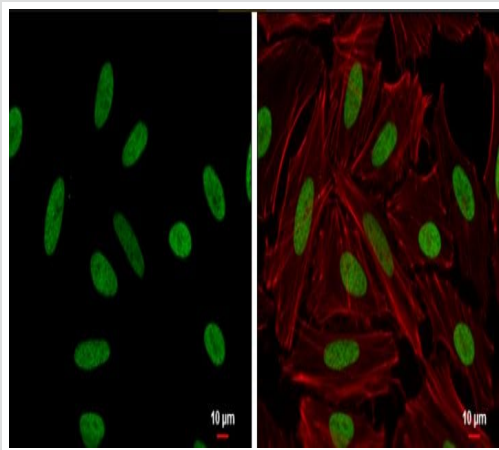
Predicted band size: 12 kDa

15% SDS-PAGE



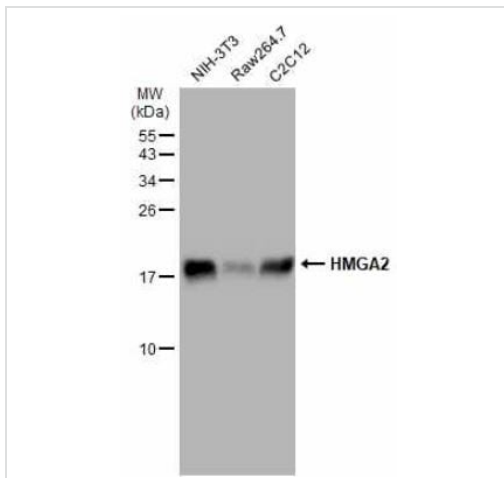
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA2 antibody (ab97276)

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

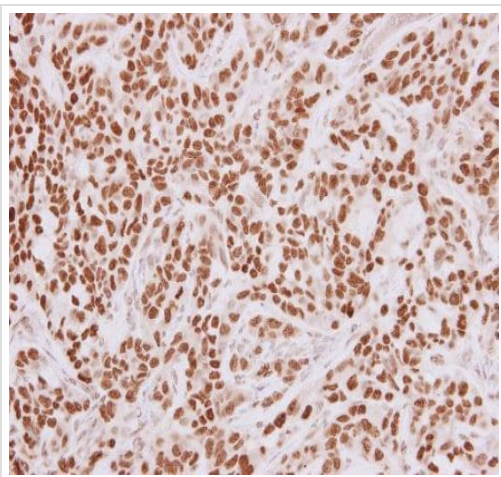
Lane 2 : Raw264.7 whole cell extract

Lane 3 : C2C12 whole cell extract

Lysates/proteins at 30 µg per lane.

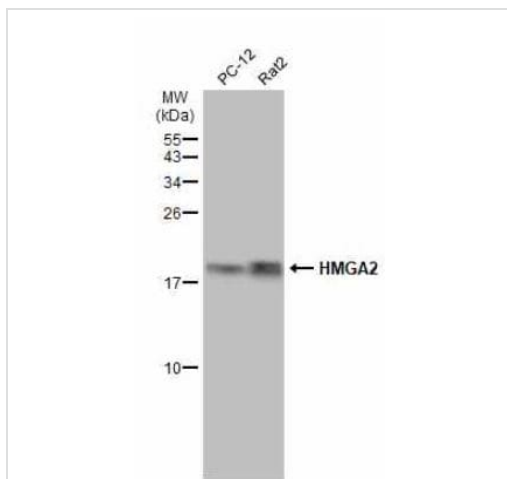
Predicted band size: 12 kDa

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

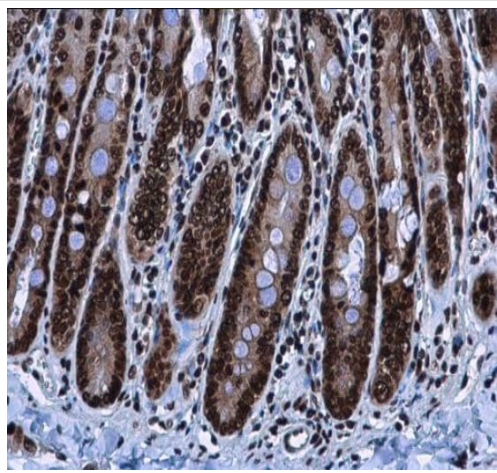
Lane 1 : PC-12 whole cell extract

Lane 2 : Rat2 whole cell extract

Lysates/proteins at 30 µg per lane.

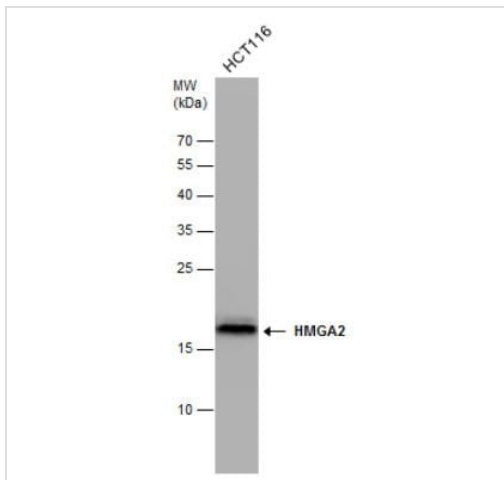
Predicted band size: 12 kDa

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.

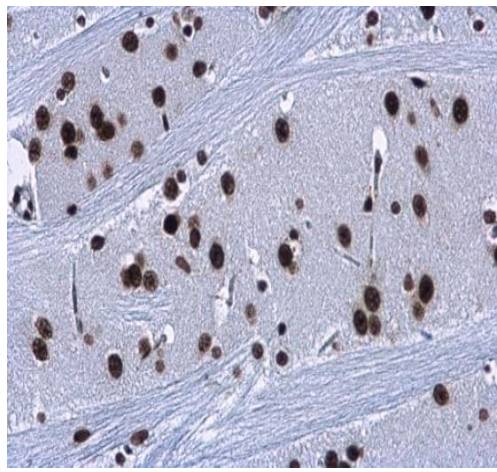


Western blot - Anti-HMGA2 antibody (ab97276)

Anti-HMGA2 antibody (ab97276) at 1/10000 dilution + HCT116 whole cell extract at 30 µg

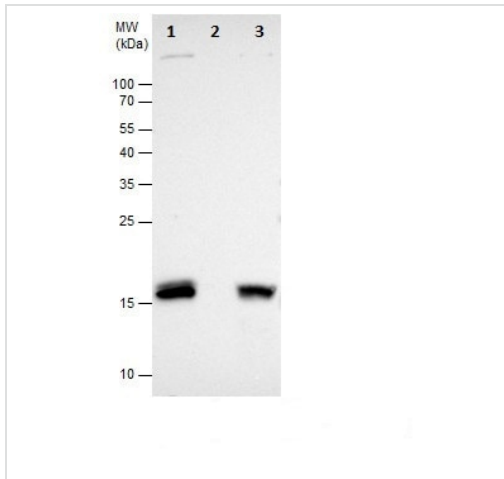
Predicted band size: 12 kDa

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.



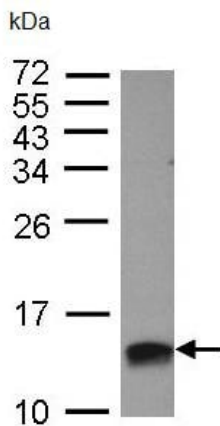
Immunoprecipitation - Anti-HMGA2 antibody (ab97276)

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

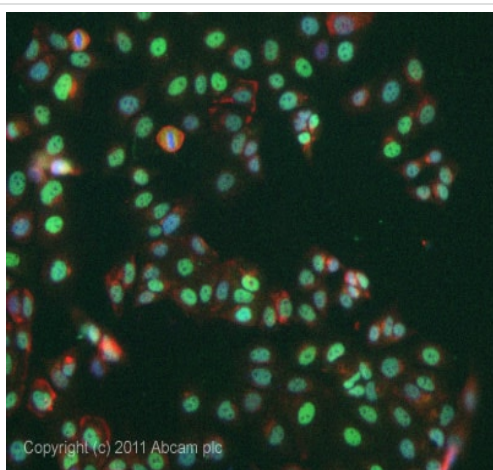


Western blot - Anti-HMGA2 antibody (ab97276)

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

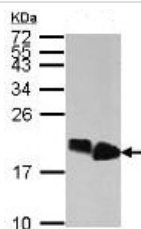
Predicted band size: 12 kDa

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)

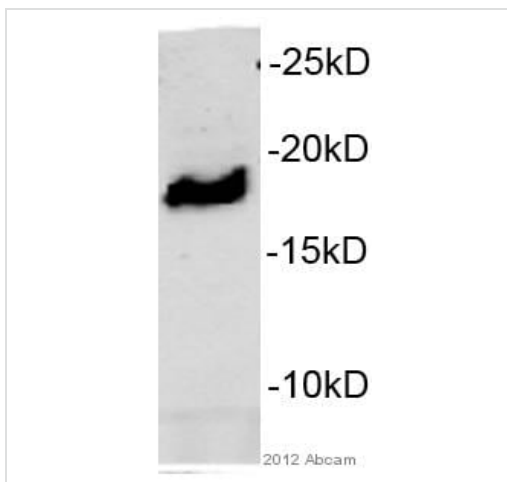
All lanes : Anti-HMGA2 antibody (ab97276) at 1/10000 dilution

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

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