

Product datasheet

Anti-HMGA2 antibody ab97276

★★★★☆ 3 Abreviews 6 References 5 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: Human Predicted to work with: Mouse, Rat
Immunogen	Recombinant fragment, corresponding to a region within N terminal amino acids 1 - 93 of Human HMGA2 (NP_003474).
Positive control	MOLT4 whole cell lysate, MCF7 cells, HepG2, HCT116, HeLa

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 1.21% Tris, 0.75% Glycine
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	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.

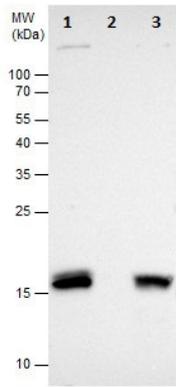
Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.

Application	Abreviews	Notes
IP		1/100 - 1/500.
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	<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

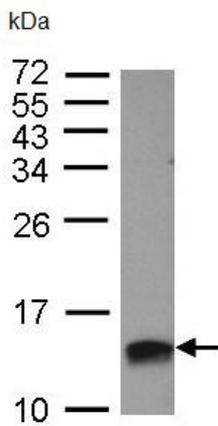


Immunoprecipitation - Anti-HMGA2 antibody (ab97276)

Lane 1: Input

Lane 2: Immunoprecipitation using control IgG

Lane 3: Immunoprecipitation using 5 µg ab97276

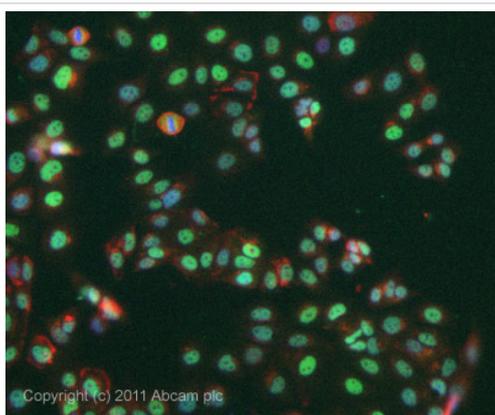


Western blot - Anti-HMGA2 antibody (ab97276)

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

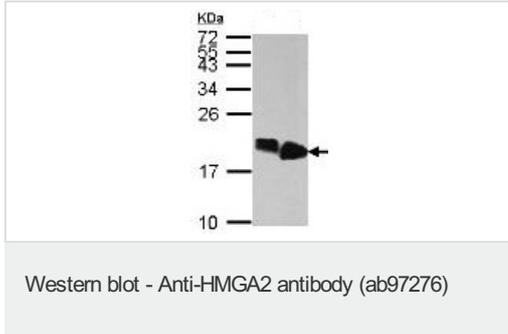
Predicted band size: 12 kDa

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, 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.



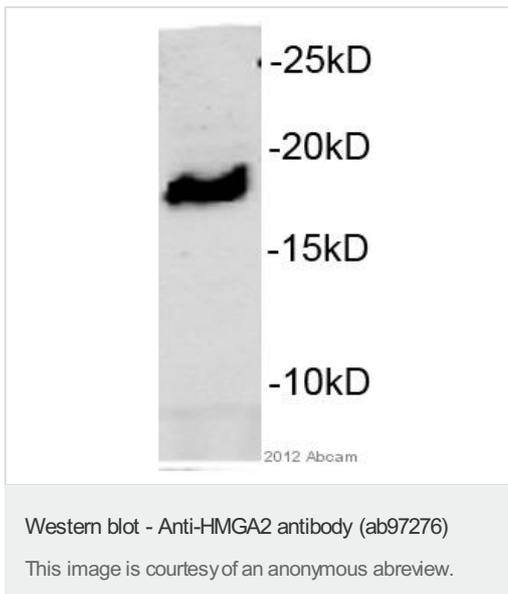
All lanes : Anti-HMGA2 antibody (ab97276) at 1/10000 dilution

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

[why is the actual band size different from the predicted?](#)

Exposure time: 10 minutes

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