


Product datasheet

Anti-HMGA1 $\alpha$  / HMGA1b antibody ab109706

3 Images

Overview

<b>Product name</b>	Anti-HMGA1a / HMGA1b antibody
<b>Description</b>	Goat polyclonal to HMGA1a / HMGA1b
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow, Dog, Pig 
<b>Immunogen</b>	Synthetic peptide: C-SQPLASKQEKDGT, corresponding to internal sequence amino acids 9-21 of Human HMGA1a/ HMGA1b (NP_665906.1; NP_002122.1).  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: pancreas lysate. IHC-P: placenta or skin tissue.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab109706** 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
WB		Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 12 kDa.
ELISA		1/16000.
IHC-P		Use a concentration of 3.75 µg/ml.

## Target

<b>Function</b>	HMG-I/Y bind preferentially to the minor groove of A+T rich regions in double stranded DNA. It is suggested that these proteins could function in nucleosome phasing and in the 3'-end processing of mRNA transcripts. They are also involved in the transcription regulation of genes containing, or in close proximity to A+T-rich regions.
<b>Involvement in disease</b>	Note=A chromosomal aberration involving HMGA1 is found in pulmonary chondroid hamartoma. Translocation t(6;14)(p21;q23-24) with RAD51L1.
<b>Sequence similarities</b>	Belongs to the HMGA family. Contains 3 A.T hook DNA-binding domains.
<b>Post-translational modifications</b>	Constitutively phosphorylated on two or three sites. Phosphorylated upon DNA damage, probably by ATM or ATR. Hyperphosphorylated at early stages of apoptosis, followed by dephosphorylation and methylation, which coincides with chromatin condensation. Isoform HMG-Y can be phosphorylated by HIPK2. HMG-Y is not methylated. Methylation at Arg-58 is mutually exclusive with methylation at Arg-60.
<b>Cellular localization</b>	Nucleus. Chromosome.

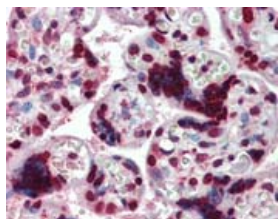
## Images



Anti-HMGA1a / HMGA1b antibody (ab109706) at 0.5 µg/ml  
(incubation time: 1 hour) + Human pancreas lysate in RIPA buffer at 35 µg

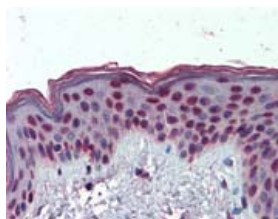
Developed using the ECL technique.

**Predicted band size: 12 kDa**



ab109706 at 3.75 µg/ml staining formalin-fixed, paraffin-embedded Human placenta tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA1a / HMGA1b antibody (ab109706)



ab109706 at 3.75 µg/ml staining formalin-fixed, paraffin-embedded Human skin tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGA1a / HMGA1b antibody (ab109706)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors