


Anti-HMGN3 antibody ab72233

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Overview

Product name	Anti-HMGN3 antibody
Description	Rabbit polyclonal to HMGN3
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Horse, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Bat 
Immunogen	Synthetic peptide from a region between residue 60 and 99 of human HMGN3, NP_004233.1.
Positive control	Whole cell lysate from Hela cells.
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab72233 in the following tested applications.

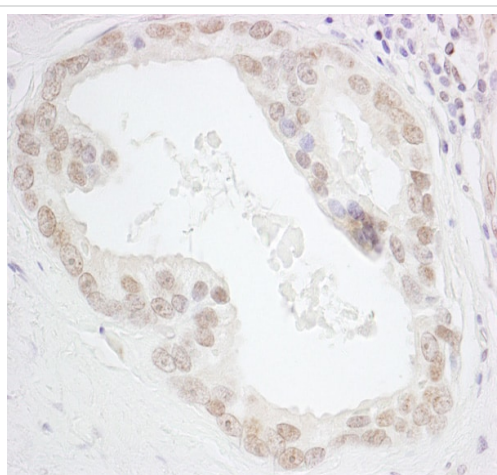
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Detects a band of approximately 15, 16, 19, 51 kDa (predicted molecular weight: 11 kDa).
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/200 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

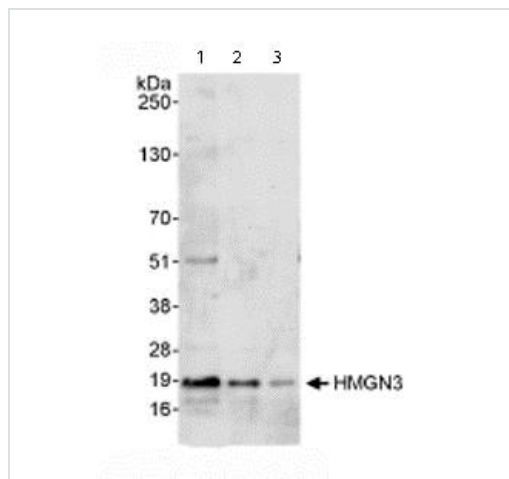
Function	Binds to nucleosomes, regulating chromatin structure and consequently, chromatin-dependent processes such as transcription, DNA replication and DNA repair. Affects both insulin and glucagon levels and modulates the expression of pancreatic genes involved in insulin secretion. Regulates the expression of the glucose transporter SLC2A2 by binding specifically to its promoter region and recruiting PDX1 and additional transcription factors. Regulates the expression of SLC6A9, a glycine transporter which regulates the glycine concentration in synaptic junctions in the central nervous system, by binding to its transcription start site. May play a role in ocular development and astrocyte function.
Tissue specificity	Expressed in kidney, lung, pancreas, testis, skeletal muscle, heart, thyroid gland, pituitary gland, prostate and uterus. Low expression in liver, spleen, placenta and ovaries.
Sequence similarities	Belongs to the HMGN family.
Cellular localization	Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate carcinoma tissue labelling HMGN3 with ab72233 at 1/1000 (0.2µg/ml). Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGN3 antibody (ab72233)



Western blot - Anti-HMGN3 antibody (ab72233)

All lanes : Anti-HMGN3 antibody (ab72233) at 0.04 µg/ml

Lane 1 : Whole cell lysate from HeLa cells at 50 µg

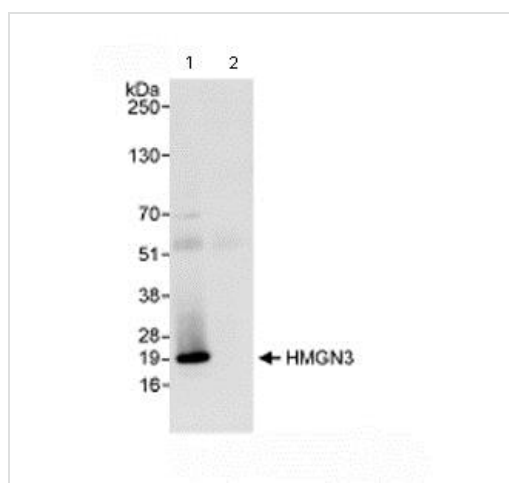
Lane 2 : Whole cell lysate from HeLa cells at 15 µg

Lane 3 : Whole cell lysate from HeLa cells at 5 µg

Predicted band size: 11 kDa

Observed band size: 19 kDa

Additional bands at: 15 kDa, 16 kDa, 51 kDa. We are unsure as to the identity of these extra bands.



Immunoprecipitation - Anti-HMGN3 antibody (ab72233)

Immunoprecipitation/ Western Blot of HMGN3.

Lane 1: ab72233 at 3µg/mg whole cell lysate.

Lane 2: Control IgG.

ab72233 at 1µg/ml for WB.

Whole cell lysate from HeLa cells at 1mg for IP, 20% of IP loaded.

Chemiluminescence with an exposure time of 3 seconds.

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