

Product datasheet

Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] ab190908

Recombinant RabMAb

[3 References](#) [9 Images](#)

Overview

Product name	Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473]
Description	Rabbit monoclonal [EPR18473] to KAT7 / Hbo1 / MYST2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, MCF7, NIH/3T3, Jurkat, C6 and RAW 264.7 cell lysates; human breast cancer lysate. IHC-P: human colon, human testis, mouse colon, rat colon and rat testis tissues. ICC/IF: HEK-293 cells. IP: Jurkat whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR18473
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab190908 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		1/5000. Detects a band of approximately 75 kDa (predicted molecular weight: 71 kDa).
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/2000.
IP		1/60.

Target

Function Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Through chromatin acetylation it may regulate DNA replication and act as a coactivator of TP53-dependent transcription. Specifically represses AR-mediated transcription.

Tissue specificity Ubiquitously expressed, with highest levels in testis.

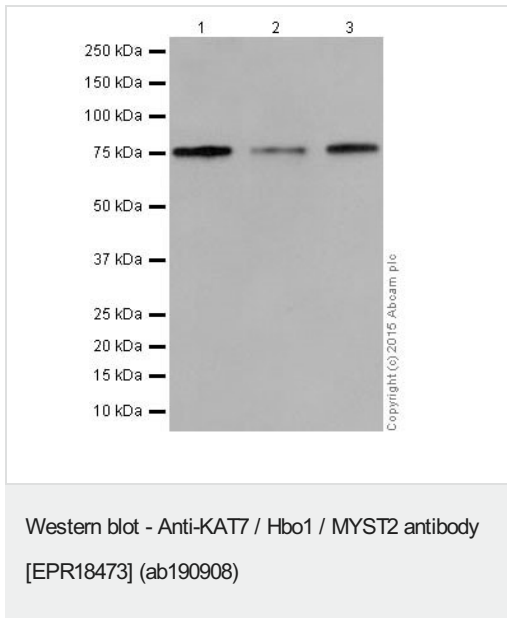
Sequence similarities Belongs to the MYST (SAS/MOZ) family.
Contains 1 C2HC-type zinc finger.

Domain The C2HC-type zinc finger is required for interaction with MCM2 and ORC1L.
The N-terminus is involved in transcriptional repression, while the C-terminus mediates AR-interaction.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Nucleus > nucleoplasm.

Images



All lanes : Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908) at 1/5000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) cell lysate

Lane 2 : MCF7 (Human breast adenocarcinoma cell line) cell lysate

Lane 3 : NIH/3T3 (Mouse embryonic fibroblast cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

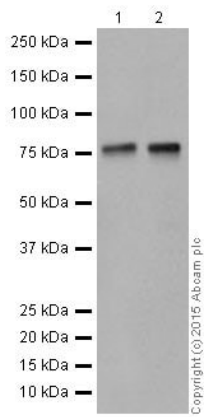
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

Predicted band size: 71 kDa

Observed band size: 75 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908)

All lanes : Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908) at 1/5000 dilution

Lane 1 : C6 (Rat glial tumor cells) cell lysate

Lane 2 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

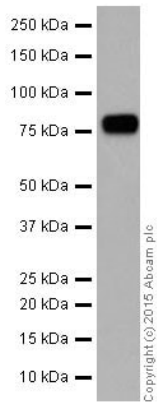
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 71 kDa

Observed band size: 75 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908)

Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908) at 1/1000 dilution + human breast cancer lysate at 40 µg

Secondary

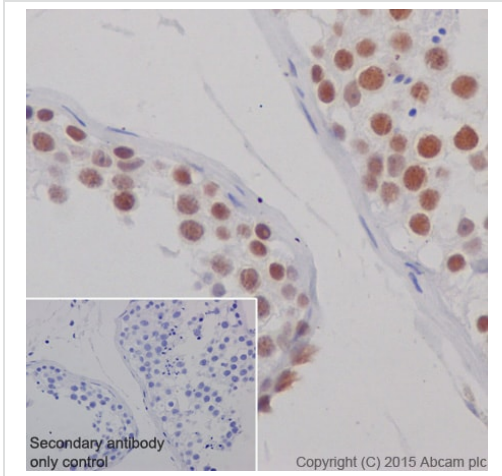
Goat Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/50000 dilution

Predicted band size: 71 kDa

Observed band size: 75 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

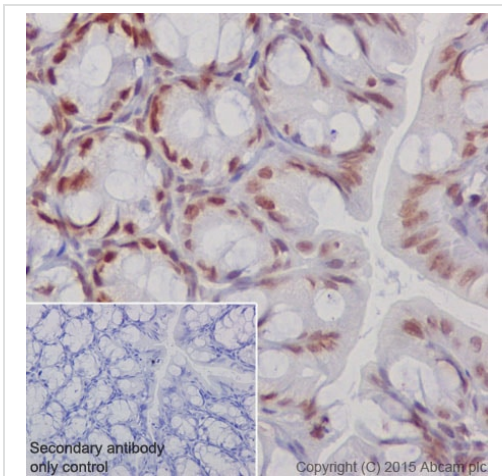


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908)

Immunohistochemical analysis of paraffin-embedded human testis tissue labeling KAT7 / Hbo1 / MYST2 with ab190908 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on human testis is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

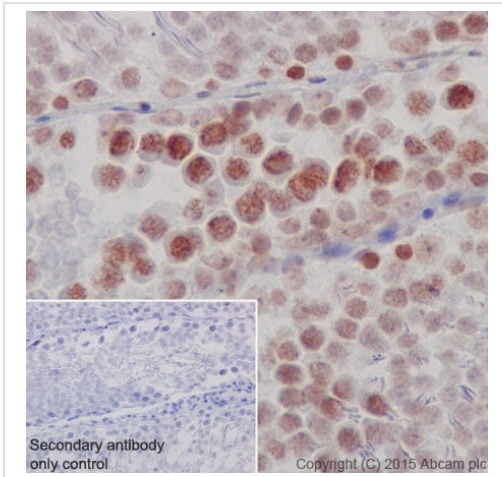


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908)

Immunohistochemical analysis of paraffin-embedded mouse colon tissue labeling KAT7 / Hbo1 / MYST2 with ab190908 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on mouse colon is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

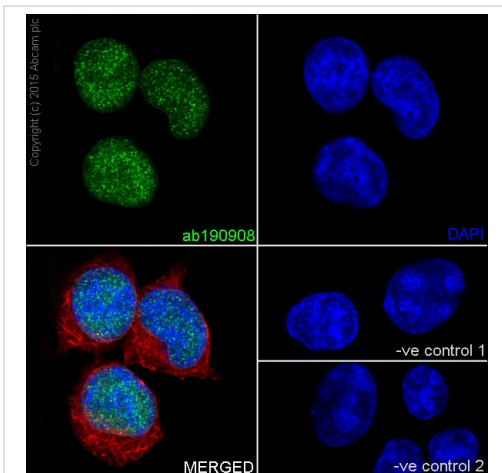


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908)

Immunohistochemical analysis of paraffin-embedded rat testis tissue labeling KAT7 / Hbo1 / MYST2 with ab190908 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on rat testis is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908)

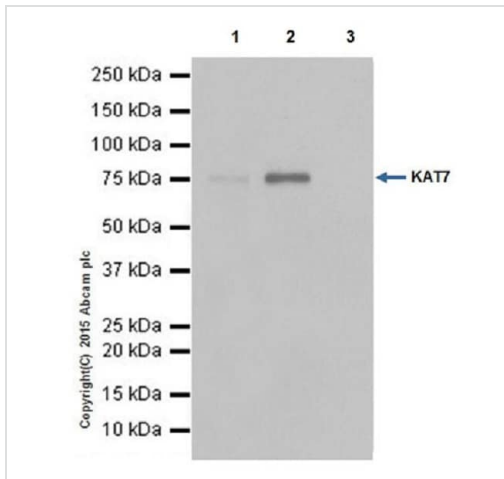
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK-293 (Human epithelial cells from embryonic kidney) cells labeling KAT7 / Hbo1 / MYST2 with ab190908 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor[®] 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Confocal image showing nuclear staining on HEK-293 cell line. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor[®] 594) (**ab150120**) secondary antibody at 1/500 dilution (red).

The negative controls are as follows:

-ve control 1: ab190908 at 1/2000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor[®] 594) (**ab150120**) secondary at 1/500 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) (**ab150077**) secondary at 1/500 dilution.



Immunoprecipitation - Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908)

KAT7 / Hbo1 / MYST2 was immunoprecipitated from 1mg of Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate with ab190908 at 1/60 dilution. Western blot was performed from the immunoprecipitate using ab190908 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: Jurkat whole cell lysate 10ug (Input).

Lane 2: ab190908 IP in Jurkat whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab190908 in Jurkat whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-KAT7 / Hbo1 / MYST2 antibody [EPR18473] (ab190908)

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

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