abcam

Product datasheet

Anti-JMJD6 antibody [EPR23672-71] ab256798

敲除验证 重组 RabMAb

7 图像

概述

产品名称	Anti-JMJD6抗体[EPR23672-71]
描述	兔单克隆抗体[EPR23672-71] to JMJD6
宿主	Rabbit
经测试应用	**适用于:** WB, Flow Cyt, IHC-P **不适用于:** ICC/IF or IP
种属反应性	**与反应:** Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Wild-type HEK-293T, A549, HeLa, PANC-1, 293T lysates. IHC-P: Human testis, Human liver tumor tissues. Flow Cyt: HEK293T cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR23672-71

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab256798于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Predicted molecular weight: 46 kDa.
Flow Cyt		1/500.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

应用说明 Is unsuitable for ICC/IF or IP.

靶标

功能 Dioxygenase that can both act as a histone arginine demethylase and a lysyl-hydroxylase. Acts as a lysyl-hydroxylase that catalyzes 5-hydroxylation on specific lysine residues of target proteins such as U2AF2/U2AF65 and LUC7L2. Acts as a regulator of RNA splicing by mediating 5-hydroxylation of U2AF2/U2AF65, affecting the pre-mRNA splicing activity of U2AF2/U2AF65. In addition to peptidyl-lysine 5-dioxygenase activity, may act as a RNA hydroxylase, as suggested by its ability to bind single strand RNA. Also acts as an arginine demethylase which demethylates histone H3 at 'Arg-2' (H3R2me) and histone H4 at 'Arg-3' (H4R3me), thereby playing a role in histone code. However, histone arginine demethylation may not constitute the primary activity in vivo. Has no histone lysine demethylase activity. Required for differentiation of multiple organs during embryogenesis. Acts as a key regulator of hematopoietic differentiation: required for angiogenic sprouting by regulating the pre-mRNA splicing activity of U2AF2/U2AF65. Seems to be necessary for the regulation of macrophage cytokine responses.

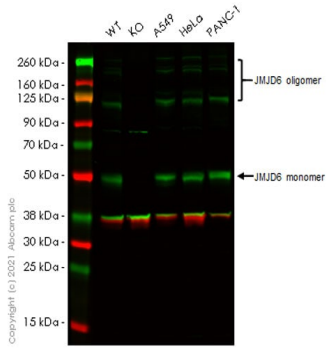
组织特异性 Highly expressed in the heart, skeletal muscle and kidney. Expressed at moderate or low level in brain, placenta, lung, liver, pancreas, spleen, thymus, prostate, testis and ovary. Up-regulated in many patients with chronic pancreatitis. Expressed in nursing thymic epithelial cells.

序列相似性 Belongs to the JMJD6 family.
Contains 1 JmjC domain.

结构域 The nuclear localization signal motifs are necessary and sufficient to target it into the nucleus.

细胞定位 Nucleus > nucleoplasm. Nucleus > nucleolus. Mainly found throughout the nucleoplasm outside of regions containing heterochromatic DNA, with some localization in nucleolus. During mitosis, excluded from the nucleus and reappears in the telophase of the cell cycle.

图片



Western blot - Anti-JMJD6 antibody [EPR23672-71] (ab256798)

All lanes : Anti-JMJD6 antibody [EPR23672-71] (ab256798) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 2 : JMJD6 knockout HEK-293T whole cell lysate
Lane 3 : A549 (human lung carcinoma epithelial cell) whole cell lysate
Lane 4 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate
Lane 5 : PANC-1 (human pancreatic epithelioid carcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 800CW) (**ab216773**) and Goat Anti-Mouse IgG H&L (IRDye® 680RD) (**ab216776**) at 1/10000 dilution

Predicted band size: 46 kDa
Observed band size: 147,294,49 kDa

Blocking and diluting buffer and concentration: Intercept® (TBS) Blocking Buffer diluted with an equal volume of 0.1% TBS.

Lanes 1-5: Merged signal (red and green).

Green - ab256798 observed at 49, 147, 294kDa.

Red - loading control **ab8245** observed at 36 kDa.

ab256798 Anti-JMJD6 antibody [EPR23672-71] was shown to react with JMJD6 in Hela cells in Western blot. Loss of signal was observed when knockout cell line

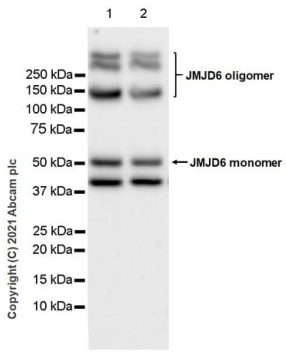
ab266402 (JMJD6 knockout cell lysate **ab257490**) was used. Wild-type and JMJD6 knockout samples were subjected to SDS-PAGE.

ab256798 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at 4°C overnight at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed

(**ab216776**) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

The molecular weight observed is consistent with what has been described in the literature (PMID:24360279).

This antibody reacts with an unidentifiable protein around 38 kDa.



Western blot - Anti-JMJD6 antibody [EPR23672-71] (ab256798)

All lanes : Anti-JMJD6 antibody [EPR23672-71] (ab256798) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate
Lane 2 : 293T (human embryonic kidney epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 46 kDa
Observed band size: 147,294,49 kDa

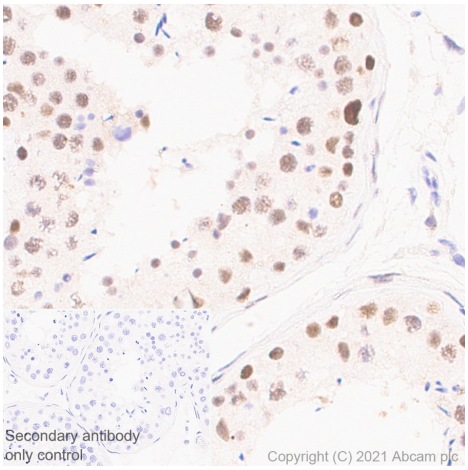
Blocking and diluting buffer and concentration: 5% NFDM/TBST

Lysates were made freshly and used in WB test immediately to minimize protein degradation.

The molecular weight observed is consistent with what has been described in the literature (PMID:24360279).

This antibody reacts with an unidentifiable protein around 38 kDa.

Exposure time: 48 seconds

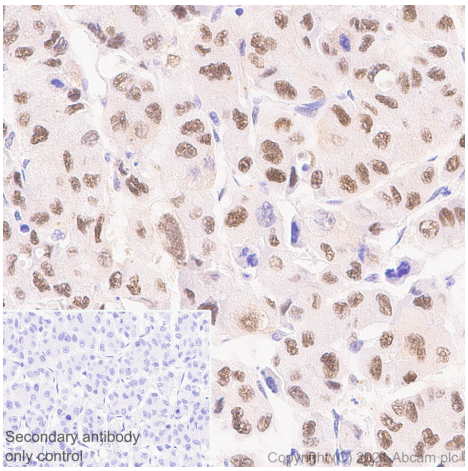


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JMJD6 antibody [EPR23672-71] (ab256798)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labelling JMJD6 with ab256798 at 1/500 dilution (1.152 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on human testis. The section was incubated with ab256798 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

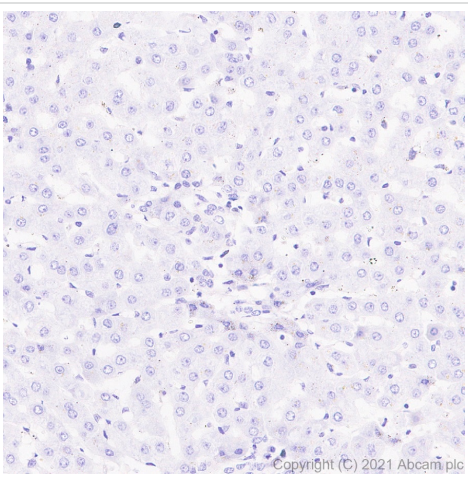


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JMJD6 antibody [EPR23672-71] (ab256798)

Immunohistochemical analysis of paraffin-embedded Human liver tumor tissue labelling JMJD6 with ab256798 at 1/500 (1.152 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on human liver tumor. The section was incubated with ab256798 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

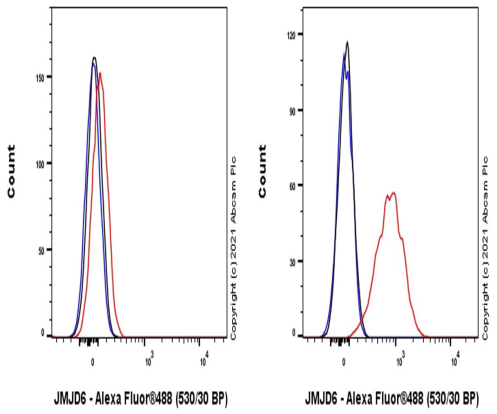


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JMJD6 antibody [EPR23672-71] (ab256798)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labelling JMJD6 with ab256798 at 1/500 dilution (1.152 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). **Negative control**: No staining on human liver. The section was incubated with ab256798 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Flow Cytometry - Anti-JMJD6 antibody [EPR23672-71] (ab256798)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized parental HEK293T (Human embryonic kidney epithelial cell, Right) cells / JMJD6 KO HEK293T cells (Left) labelling JMJD6 with ab256798 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody. Positive staining on 293T cells (**ab255449**), while no staining on JMJD6 knockout HEK-293T cells (**ab266402**).

Anti-JMJD6 antibody [EPR23672-71] (ab256798)

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