

### Anti-TET1 antibody - C-terminal ab191698

★★★★★ [2 Abreviews](#) [38 References](#) [11 图像](#)

#### 概述

<b>产品名称</b>	Anti-TET1抗体- C-terminal
<b>描述</b>	兔多克隆抗体to TET1 - C-terminal
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB, IHC-P, ICC/IF
<b>种属反应性</b>	<b>与反应:</b> Mouse, Rat, Human
<b>免疫原</b>	Synthetic peptide within Human TET1 (C terminal). The exact sequence is proprietary. 18 amino acid peptide. The immunogen is located with amino acids 2030 - 2080. Database link: <a href="#">Q8NFU7</a>
<b>阳性对照</b>	Western blot: Human, mouse and rat testis; Human bladder; Mouse and rat kidney; Mouse and rat thymus; Mouse stomach; K562, A431 whole cell lysates. IHC-P: Human and mouse testis, mouse kidney and rat liver tissues. ICC/IF: HeLa and EL4 cell lines.
<b>常规说明</b>	<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&amp;As</p>

#### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	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.
<b>存储溶液</b>	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
<b>纯度</b>	Immunogen affinity purified
<b>克隆</b>	多克隆
<b>同种型</b>	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab191698于以下的经测试应用

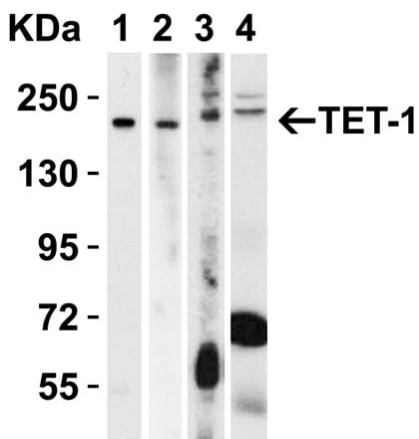
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Predicted molecular weight: 235 kDa. Recommend for human and mouse and rat. Please see image legend for details of the Western blot protocol. Blocking in milk and incubation of ab191698 for 1 hour at room temperature.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Recommend for human and mouse. Please see image legends for more protocol details.
ICC/IF		Use a concentration of 20 µg/ml. Recommend for human and mouse. Please see image legends for more protocol details.

## 靶标

功能	Dioxygenase that catalyzes the conversion of methylcytosine (5mC) to 5-hydroxymethylcytosine (hmC). Plays a role in embryonic stem (ES) cell maintenance and inner cell mass (ICM) cell specification, possibly by participating in DNA demethylation. Specifically binds 5mC, a minor base in mammalian DNA found in repetitive DNA elements that is crucial for retrotransposon silencing and mammalian development. 5mC is present in ES cells and is enriched in the brain, especially in Purkinje neurons. The clear function of hmC is still unclear but it could constitute an intermediate component in cytosine demethylation. A role of hmC in DNA demethylation is supported by TET1 function in ES cell maintenance, which is required to prevent NANOG hypermethylation and maintain NANOG expression in ES cells.
组织特异性	Expressed in fetal heart, lung and brain, and in adult skeletal muscle, thymus and ovary. Not detected in adult heart, lung or brain.
疾病相关	Note=A chromosomal aberration involving TET1 may be a cause of acute leukemias. Translocation t(10;11)(q22;q23) with MLL. This is a rare chromosomal translocation 5' MLL-TET1 3'.
序列相似性	Belongs to the TET family. Contains 1 CXXC-type zinc finger.
细胞定位	Nucleus.

## 图片



Western blot - Anti-TET1 antibody - C-terminal (ab191698)

**All lanes :** Anti-TET1 antibody - C-terminal (ab191698) at 1 µg/ml

**Lane 1 :** Mouse testis

**Lane 2 :** Rat testis

**Lane 3 :** Human testis

**Lane 4 :** Human bladder

Lysates/proteins at 15 µg per lane.

#### **Secondary**

**All lanes :** Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Developed using the ECL technique.

**Predicted band size:** 235 kDa

**Additional bands at:** 55-72 kDa (possible non-specific binding)

**Exposure time:** 1 minute

8% SDS gel

Running condition: 130V, 1.5 hours.

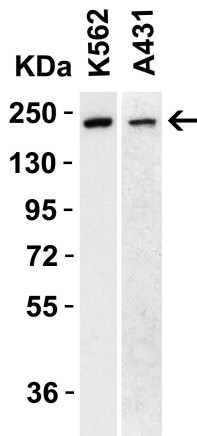
Transfer condition: Wet, 250mA, 2 hrs (Nitrocellulose membrane)

Blocking condition: 5% non-fat milk in TBS at 4 overnight.

Primary antibody incubation: room temperature for 1 hour in 5% NFDM/TBST.

Secondary antibody incubation: room temperature for 1 hour.

Washing condition: 5 mL TBST, 4 x 5 minutes.



Western blot - Anti-TET1 antibody - C-terminal (ab191698)

**All lanes** : Anti-TET1 antibody - C-terminal (ab191698) at 1 µg/ml

**Lane 1** : K562 (Human chronic myelogenous leukemia lymphoblast cell line ) whole cell lysate

**Lane 2** : A431 (Human epidermoid carcinoma cell line) whole cell lysate

Lysates/proteins at 15 µg per lane.

#### Secondary

**All lanes** : abbit IgG antibody (HRP) at 1/10000 dilution

**Predicted band size:** 235 kDa

**Observed band size:** 235 kDa

Western blot analysis labeling TET1 with ab191698 at 1 µg/mL in 5% NFDm/TBST, followed by secondary antibody, incubated at room temperature for 1hr.

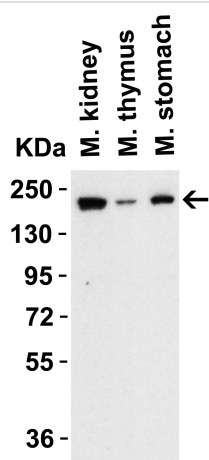
Running condition: 8% gel, 130V for 1.5 hrs.

Transfer condition: Wet, 250mA, 2 hrs (NC membrane).

Blocking condition: 5% non-fat milk in TBS at 4°C overnight.

Washing condition: 5ml TBST, 4 x 5 min.

Exposure system: GE ECL 1 min.



Western blot - Anti-TET1 antibody - C-terminal  
(ab191698)

**All lanes** : Anti-TET1 antibody - C-terminal (ab191698) at 1 µg/ml

**Lane 1** : Mouse kidney

**Lane 2** : Mouse thymus

**Lane 3** : Mouse stomach

Lysates/proteins at 15 µg per lane.

#### Secondary

**All lanes** : Rabbit IgG antibody (HRP) at 1/10000 dilution

**Predicted band size:** 235 kDa

**Observed band size:** 235 kDa

Western blot analysis labeling TET1 with ab191698 at 1 µg/mL in 5% NFDm/TBST, followed by secondary antibody, incubated at room temperature for 1hr.

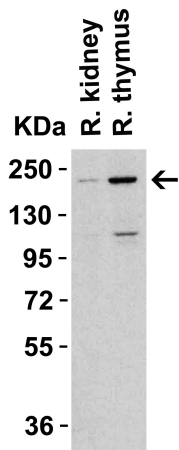
Running condition: 8% gel, 130V for 1.5 hrs.

Transfer condition: Wet, 250mA, 2 hrs (NC membrane).

Blocking condition: 5% non-fat milk in TBS at 4°C overnight.

Washing condition: 5ml TBST, 4 x 5 min.

Exposure system: GE ECL 1 min.



Western blot - Anti-TET1 antibody - C-terminal (ab191698)

**All lanes :** Anti-TET1 antibody - C-terminal (ab191698) at 1 µg/ml

**Lane 1 :** Rat kidney

**Lane 2 :** Rat thymus

Lysates/proteins at 15 µg per lane.

#### Secondary

**All lanes :** Rabbit IgG antibody (HRP) at 1/10000 dilution

**Predicted band size:** 235 kDa

**Observed band size:** 235 kDa

Western blot analysis labeling TET1 with ab191698 at 1 µg/mL in 5% NFD/MTBST, followed by secondary antibody, incubated at room temperature for 1 hr.

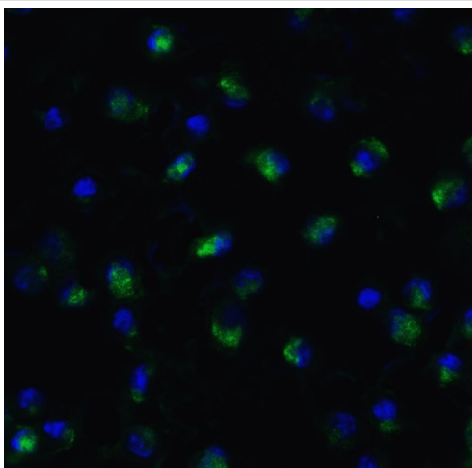
Running condition: 8% gel, 130V for 1.5 hrs.

Transfer condition: Wet, 250mA, 2 hrs (NC membrane).

Blocking condition: 5% non-fat milk in TBS at 4°C overnight.

Washing condition: 5ml TBST, 4 x 5 min.

Exposure system: GE ECL 10 sec.

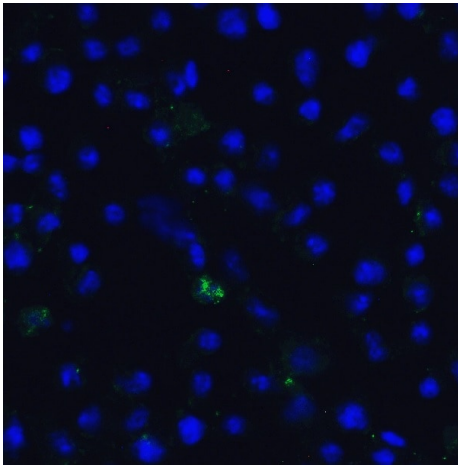


Immunocytochemistry/ Immunofluorescence - Anti-TET1 antibody - C-terminal (ab191698)

Immunofluorescent analysis of 4% paraformaldehyde-fixed (room temperature, 10 minutes), 0.1% Triton X-100 in PBS permeabilized (room temperature, 5 minutes) HeLa cells labeling TET1 with ab191698 at 20 µg/mL (incubation at 4°C overnight), followed by Rabbit IgG antibody (Alexa Fluor 488) secondary antibody at 1/2000 dilution (green) (Incubation at room temperature for 1 hour). Confocal image showing nuclear staining on HeLa cell line. The nuclear counter stain is DAPI (blue).

Blocking condition: 5% BSA, room temperature, 1 hour.

Washing condition: PBS, 3 x 3 minutes.

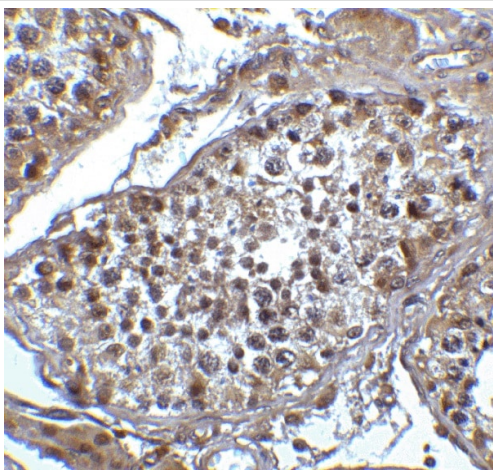


Immunocytochemistry/ Immunofluorescence - Anti-TET1 antibody - C-terminal (ab191698)

Immunofluorescent analysis of 4% paraformaldehyde-fixed (room temperature, 10 minutes), 0.1% Triton X-100 in PBS permeabilized (room temperature, 5 minutes) EL4 cells (mouse T-lymphocyte cell line) labeling TET1 with ab191698 at 20  $\mu\text{g}/\text{mL}$  (incubation at 4°C overnight), followed by Rabbit IgG antibody (Alexa Fluor 488) secondary antibody at 1/2000 dilution (green) (Incubation at room temperature for 1 hour). Confocal image showing nuclear staining on EL4 cell line. The nuclear counter stain is DAPI (blue).

Blocking condition: 5% BSA, room temperature, 1 hour.

Washing condition: PBS, 3 x 3 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TET1 antibody - C-terminal (ab191698)

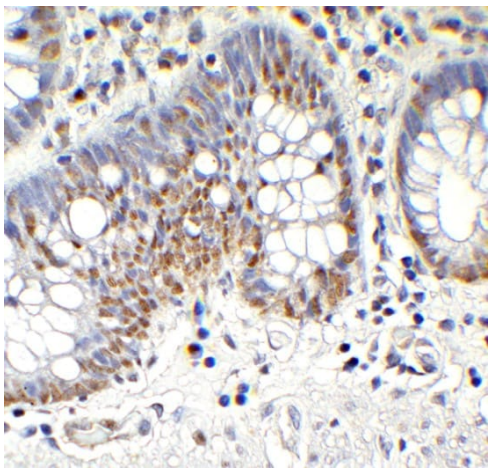
Immunohistochemical analysis of paraffin-embedded human testis tissue labeling TET1 with ab191698 at 1  $\mu\text{g}/\text{mL}$  (4°C overnight), followed by Streptavidin-HRP Kit (Rabbit IgG) (Room temperature, 1 hour). Nuclear staining on human testis is observed. DAB staining.

Antigen Retrieval: Citrate buffer, pH 6.0, microwave, 20 minutes.

Endogenous peroxidase blocking: 3%  $\text{H}_2\text{O}_2$ , Room temperature, 10 minutes.

Blocking condition: 5% BSA, room temperature, 1 hour.

Washing condition: PBS, 2 X 5 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TET1 antibody - C-terminal (ab191698)

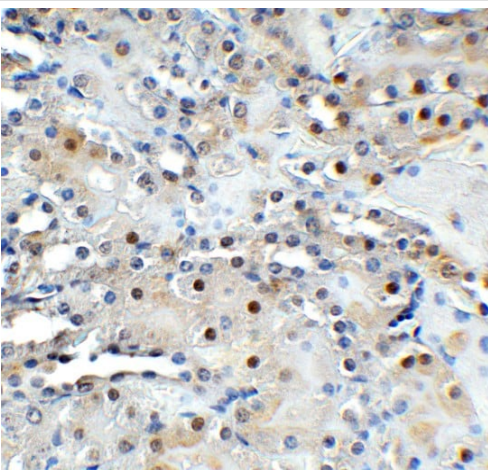
Immunohistochemical analysis of paraffin-embedded human testis tissue labeling TET1 with ab191698 at 1  $\mu\text{g}/\text{mL}$  (4°C overnight), followed by Streptavidin-HRP Kit (Rabbit IgG) (Room temperature, 1 hour). DAB staining.

Antigen Retrieval: Citrate buffer, pH 6.0, microwave, 20 minutes.

Endogenous peroxidase blocking: 3%  $\text{H}_2\text{O}_2$ , Room temperature, 10 minutes.

Blocking condition: 5% BSA, Room temperature, 1 hour.

Washing condition: PBS, 2 X 5 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TET1 antibody - C-terminal (ab191698)

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling TET1 with ab191698 at 1  $\mu\text{g}/\text{mL}$  (4°C overnight), followed by Streptavidin-HRP Kit (Rabbit IgG) (Room temperature, 1 hour). DAB staining.

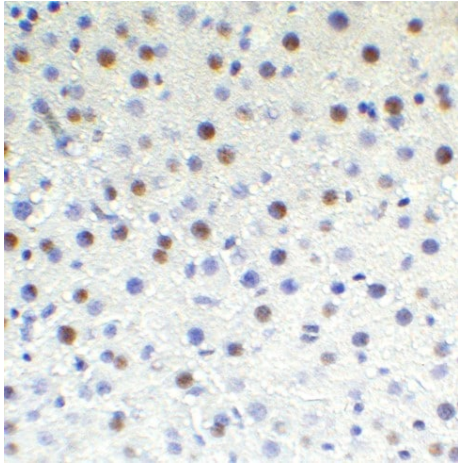
Antigen Retrieval: Citrate buffer, pH 6.0, microwave, 20 minutes.

Endogenous peroxidase blocking: 3%  $\text{H}_2\text{O}_2$ , Room temperature, 10 minutes.

Blocking condition: 5% BSA, Room temperature, 1 hour.

Washing condition: PBS, 2 X 5 minutes.





Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TET1 antibody - C-terminal (ab191698)

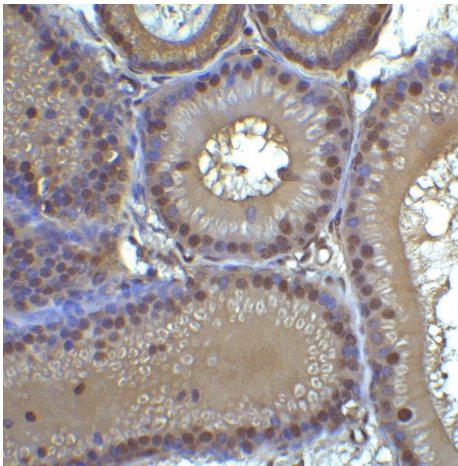
Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling TET1 with ab191698 at 1  $\mu\text{g}/\text{mL}$  (4°C overnight), followed by Streptavidin-HRP Kit (Rabbit IgG) (Room temperature, 1 hour). DAB staining.

Antigen Retrieval: Citrate buffer, pH 6.0, microwave, 20 minutes.

Endogenous peroxidase blocking: 3%  $\text{H}_2\text{O}_2$ , Room temperature, 10 minutes.

Blocking condition: 5% BSA, Room temperature, 1 hour.

Washing condition: PBS, 2 X 5 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TET1 antibody - C-terminal (ab191698)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue labeling TET1 with ab191698 at 1  $\mu\text{g}/\text{mL}$  (4°C overnight), followed by Streptavidin-HRP Kit (Rabbit IgG) (Room temperature, 1 hour). Nuclear staining on mouse testis is observed. DAB staining.

Antigen Retrieval: Citrate buffer, pH 6.0, microwave, 20 minutes.

Endogenous peroxidase blocking: 3%  $\text{H}_2\text{O}_2$ , Room temperature, 10 minutes.

Blocking condition: 5% BSA, room temperature, 1 hour.

Washing condition: PBS, 2 X 5 minutes.

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