

# Anti-RNA Helicase A antibody [EPR13521] ab183731

**重组** RabMAb

**6 References**   **14 图像**

### 概述

产品名称	Anti-RNA Helicase A抗体[EPR13521]
描述	兔单克隆抗体[EPR13521] to RNA Helicase A
宿主	Rabbit
经测试应用	<b>适用于:</b> Flow Cyt (Intra), IHC-P, WB, ICC/IF
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, MCF7 and THP-1 cell lysates; Mouse and rat brain, liver and testis tissue lysates. IHC-P: Human kidney carcinoma and lung adenocarcinoma tissue, Human and mouse breast carcinoma, human, mouse and rat testis tissue. ICC/IF: HeLa cells Flow Cyt (intra): HeLa cells
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### 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 long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR13521

同种型

IgG

应用

The Abpromise guarantee

**Abpromise™**承诺保证使用ab183731于以下的经测试应用

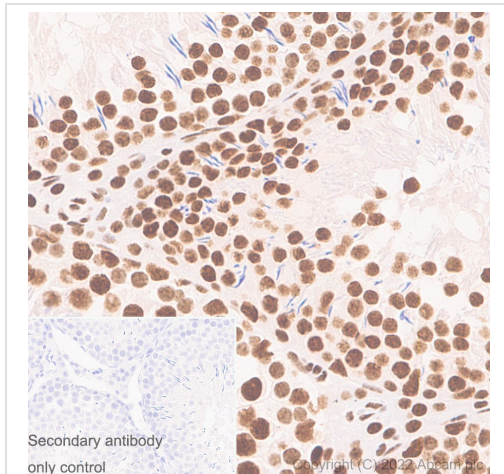
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/10 - 1/20. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/400. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <b>IHC antigen retrieval protocols</b> . <b>For unpurified use at 1/50 - 1/100.</b>
WB		1/10000 - 1/50000. Detects a band of approximately 141 kDa (predicted molecular weight: 141 kDa).
ICC/IF		1/50. <b>For unpurified use at 1/250.</b>

靶标

功能	Unwinds double-stranded DNA and RNA in a 3' to 5' direction. Alteration of secondary structure may subsequently influence interactions with proteins or other nucleic acids. Functions as a transcriptional activator. Component of the CRD-mediated complex that promotes MYC mRNA stability.
序列相似性	Belongs to the DEAD box helicase family. DEAH subfamily. Contains 2 DRBM (double-stranded RNA-binding) domains. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
结构域	The MTAD domain mediates interaction with the RNA polymerase II holoenzyme. The NTD domain is necessary and sufficient for nucleo-cytoplasmic shuttling and interaction with HRMT1L2 and SMN1.
翻译后修饰	Methylated. HRMT1L2 mediated methylation of undefined Arg residues in the NTD is required for nuclear localization. May be phosphorylated by PRKDC/XRCC7. Phosphorylated upon DNA damage, probably by ATM or ATR.
细胞定位	Nucleus > nucleolus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Can shuttle between nucleus and cytoplasm.

图片



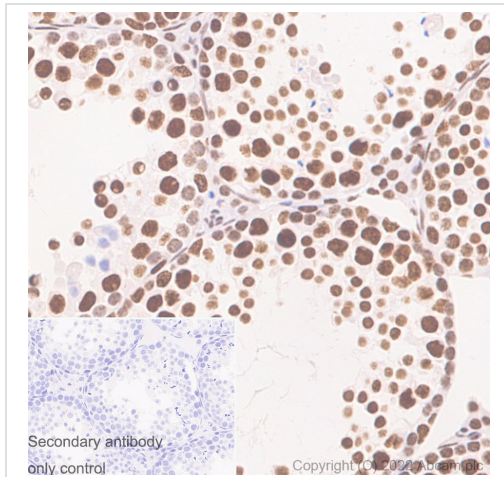
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling RNA Helicase A with ab183731 at 1/1000 (0.11 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). This section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

Nuclear staining on rat testis. The section was incubated with ab183731 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



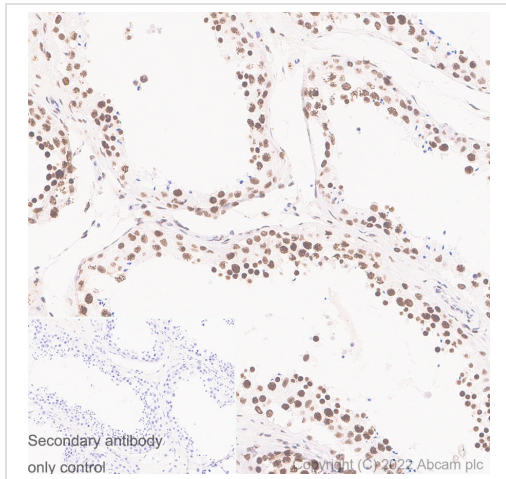
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling RNA Helicase A with ab183731 at 1/1000 (0.11 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). This section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

Nuclear staining on mouse testis. The section was incubated with ab183731 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



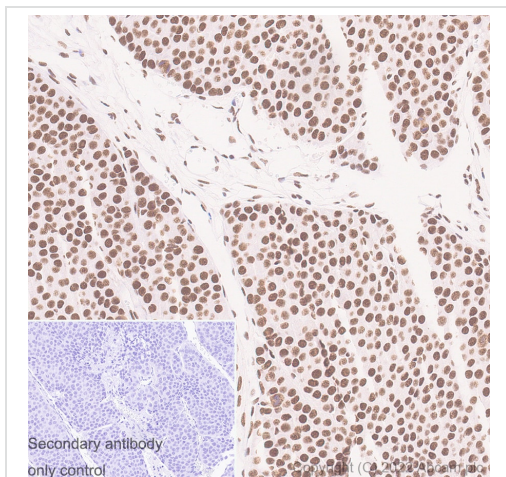
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling RNA Helicase A with ab183731 at 1/1000 (0.11 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). This section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

Nuclear staining on human testis. The section was incubated with ab183731 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



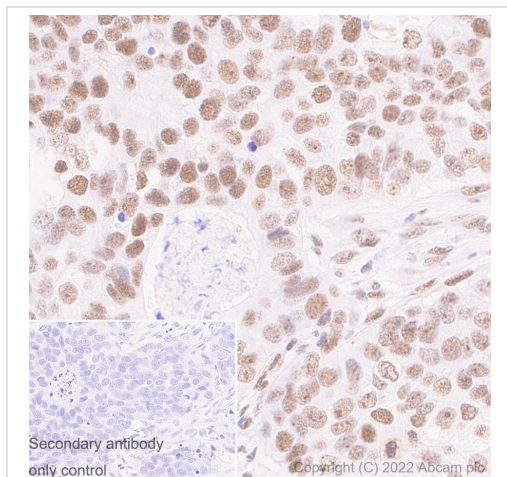
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunohistochemical analysis of paraffin-embedded Mouse breast carcinoma tissue labeling RNA Helicase A with ab183731 at 1/1000 (0.11 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). This section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

Nuclear staining on mouse breast carcinoma. The section was incubated with ab183731 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



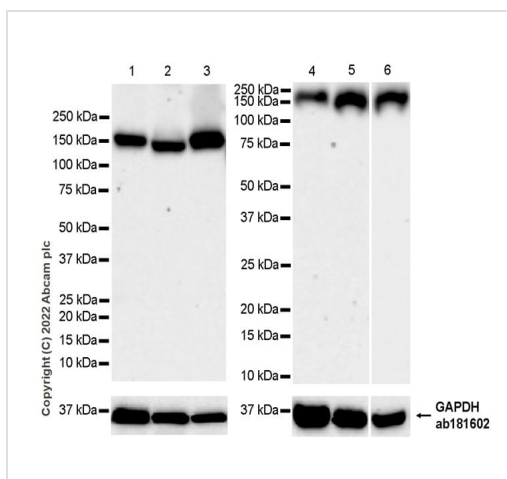
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling RNA Helicase A with ab183731 at 1/1000 (0.11 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). This section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

Nuclear staining on human breast carcinoma. The section was incubated with ab183731 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

**All lanes :** Anti-RNA Helicase A antibody [EPR13521] (ab183731) at 1/1000 dilution

**Lane 1 :** Rat brain tissue lysate

**Lane 2 :** Rat liver tissue lysate

**Lane 3 :** Rat testis tissue lysate

**Lane 4 :** Mouse brain tissue lysate

**Lane 5 :** Mouse liver tissue lysate

**Lane 6 :** Mouse testis tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 141 kDa

**Observed band size:** 150 kDa

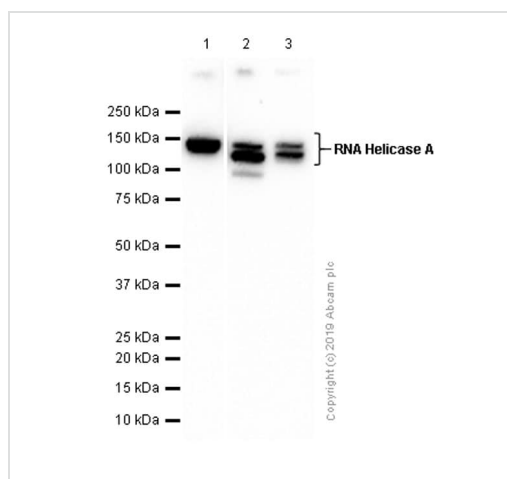
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

**ab181602** was used as a GAPDH loading control.

Exposure time: Lanes 1-5: 103 seconds, Lane 6: 26 seconds.

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





Western blot - Anti-RNA Helicase A antibody  
[EPR13521] (ab183731)

**All lanes :** Anti-RNA Helicase A antibody [EPR13521] (ab183731)  
at 1/10000 dilution (Purified)

**Lane 1 :** HeLa (Human cervix adenocarcinoma epithelial cell)  
whole cell lysates

**Lane 2 :** MCF7 (Human breast adenocarcinoma epithelial cell)  
whole cell lysates

**Lane 3 :** THP-1 (Human monocytic leukemia monocyte) whole cell  
lysates

Lysates/proteins at 20 µg per lane.

### Secondary

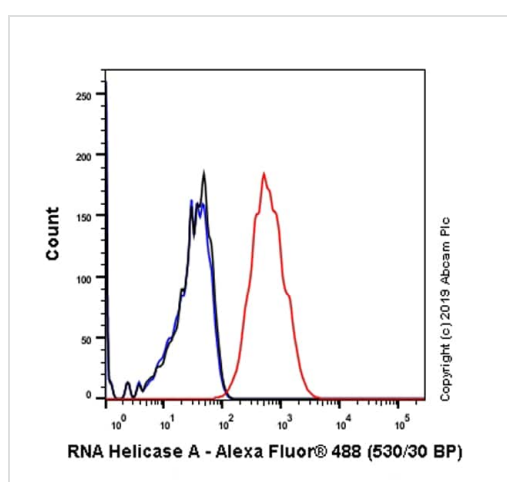
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000  
dilution

**Predicted band size:** 141 kDa

**Observed band size:** 128,141 kDa

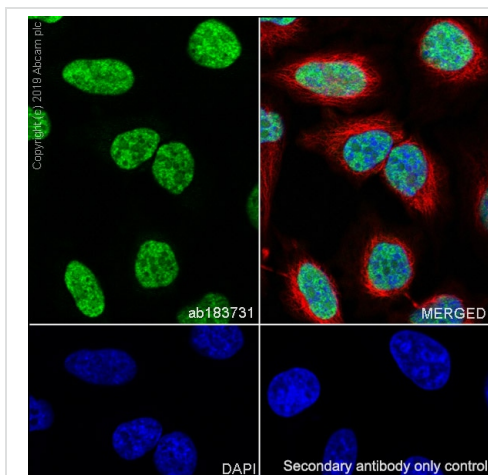
Blocking/Diluting Buffer and concentration: 5% NFDM/TBST

The observed bands are consistent with what are described in  
PMID: 28337295



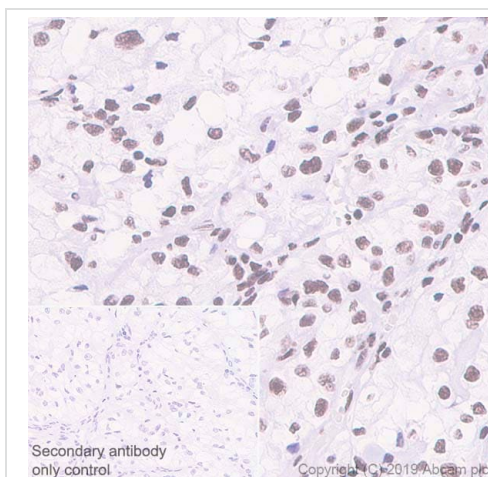
Flow Cytometry (Intracellular) - Anti-RNA Helicase A  
antibody [EPR13521] (ab183731)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling RNA Helicase A with purified ab183731 at 1/20 dilution (5µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



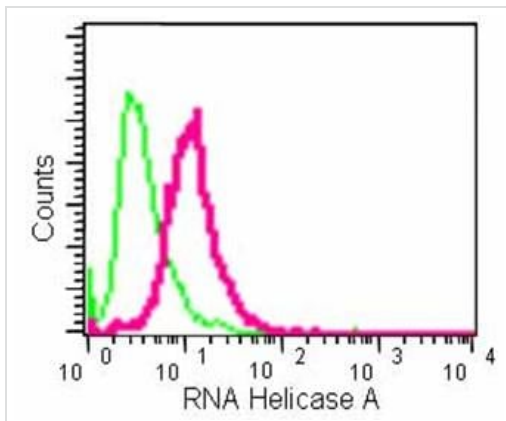
Immunocytochemistry/ Immunofluorescence - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling RNA Helicase A with purified ab183731 at 1/50 dilution (2.2 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



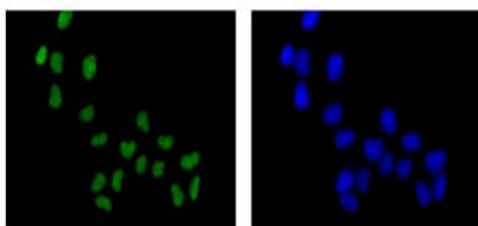
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney carcinoma tissue sections labeling RNA Helicase A with purified ab183731 at 1/400 dilution (0.28 µg/mL). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



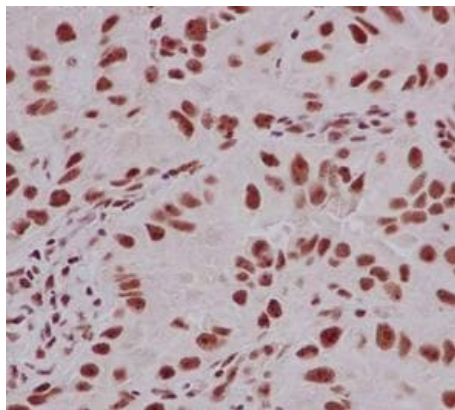
Flow Cytometry (Intracellular) - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Intracellular Flow Cytometry analysis of HeLa cells using ab183731 (unpurified) at a 1/10 dilution (red) or a Rabbit monoclonal IgG (negative) (green). Goat anti rabbit IgG (FITC) secondary used at a 1/150 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunocytochemistry analysis of HeLa cells (fixative -20% Acetone) labeling RNA Helicase A with ab183731 (unpurified) at a 1/250 dilution. Goat anti rabbit IgG (Alexa Fluor® 488) secondary used at a 1/200 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA Helicase A antibody [EPR13521] (ab183731)

Immunohistochemical analysis of paraffin embedded Human lung adenocarcinoma tissue labeling RNA Helicase A with ab183731 (unpurified) at a 1/100 dilution. Prediluted HRP conjugated Rabbit IgG secondary used. Counterstained with Hematoxylin. Heat mediated antigen retrieval was performed with EDTA buffer pH 9 before commencing with IHC staining protocol.



### 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-RNA Helicase A antibody [EPR13521]  
(ab183731)

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