


### Anti-YTHDC2 antibody [EPR21820-49] ab220160

KO 評価済 リコンビナント RabMAb

★★★★★ 4 Abreviews 10 References 画像数 12

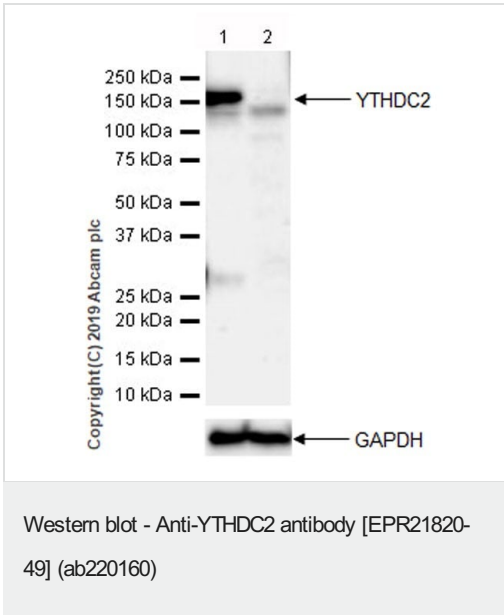
#### 製品の概要

製品名	Anti-YTHDC2 antibody [EPR21820-49]
製品の詳細	Rabbit monoclonal [EPR21820-49] to YTHDC2
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), IHC-P, IP, WB, IHC-Fr <b>適用なし:</b> ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat, Human <b>交差が予測される動物種:</b> Cow, Pig, Non human primates 
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Wild-type mESC, HT-1080, HeLa, HEK-293, NIH/3T3, PC-12 whole cell lysates. IHC-P: Human testis, Mouse testis and Rat testis tissues. Flow Cyt (intra): HeLa cells. IP: HeLa whole cell lysate. IHC-Fr: Mouse testis, Rat testis tissues.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> . 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> .

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル





**All lanes :** Anti-YTHDC2 antibody [EPR21820-49] (ab220160) at 1/1000 dilution

**Lane 1 :** Wild-type mESC (mouse embryo stem cell) whole cell lysate

**Lane 2 :** YTHDC2 knockout mESC whole cell lysate

Lysates/proteins at 40 µg per lane.

#### Secondary

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

**Predicted band size:** 160 kDa

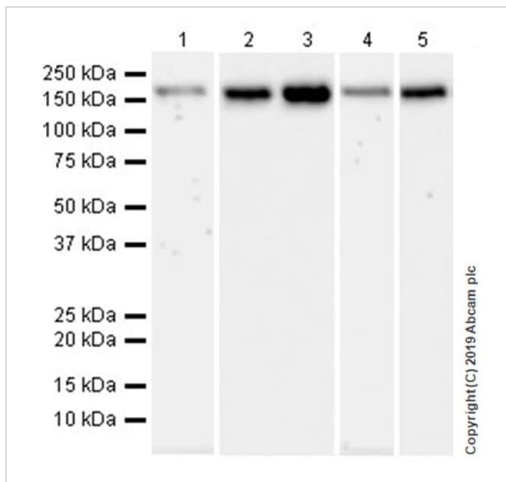
**Observed band size:** 160 kDa

**Exposure time:** 3 minutes

Blocking and dilution bufer: 5% NFDm/TBST.

The wild-type and YTHDC2 knockout cell lysates were kindly provided by an anonymous collaborator.

ab220160 was shown to specifically react with YTHDC2 in wild-type mESC cells as signal was lost in YTHDC2 knockout cells. Wild-type and YTHDC2 knockout samples were subjected to SDS-PAGE. ab220160 and [ab181602](#) (Rabbit anti-GAPDH loading control) were incubated 1 hour at room temperature at 1/1000 dilution and 1/200,000 dilution respectively. Blots were developed with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) secondary antibody at 1/100,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

**All lanes** : Anti-YTHDC2 antibody [EPR21820-49] (ab220160) at 1/1000 dilution

**Lane 1** : HT-1080 (human fibrosarcoma epithelial cell) whole cell lysate

**Lane 2** : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 3** : HEK-293 (human embryonic kidney epithelial cell) whole cell lysate

**Lane 4** : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate

**Lane 5** : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

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

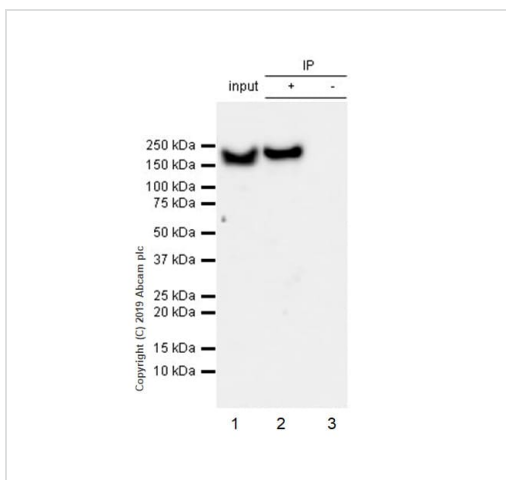
**Predicted band size:** 160 kDa

**Observed band size:** 160 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure times.

Lane 1: 3 minutes; Lanes 2-3: 37 seconds; Lane 4: 3 minutes; Lane 5: 37 seconds.



Immunoprecipitation - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

YTHDC2 was immunoprecipitated from 0.35 mg of HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with ab220160 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab220160 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) ([ab131366](#)), was used as secondary antibody at 1/5000 dilution.

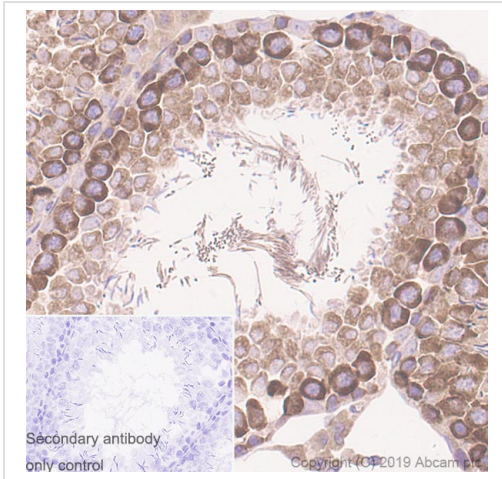
Lane 1: HeLa whole cell lysate 10 µ (Input).

Lane 2: ab220160IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab220160 in HeLa whole cell lysate.

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

Exposure time: 30 seconds.

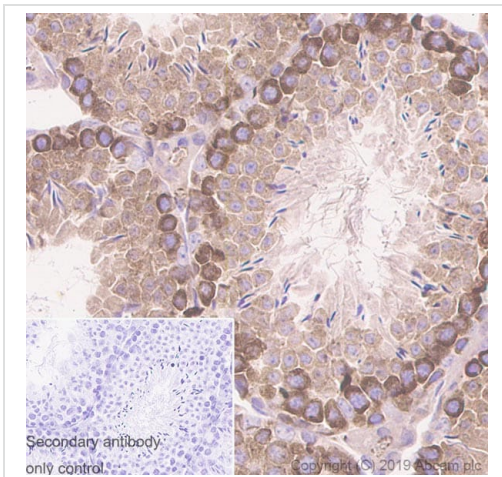


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling YTHDC2 with ab220160 at 1/500 dilution (1.19 ug/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on rat testis (PMID:28380054). Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

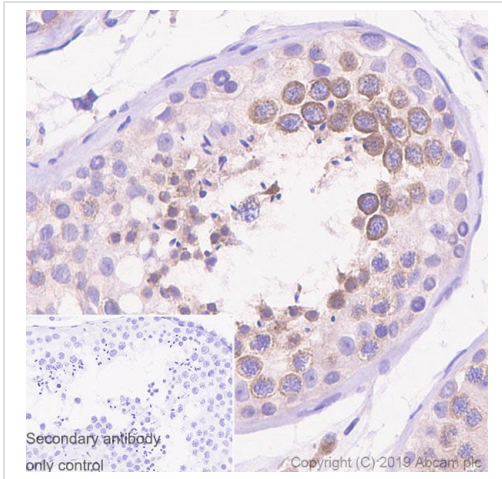


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling YTHDC2 with ab220160 at 1/500 dilution (1.19 ug/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on mouse testis (PMID:28380054). Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

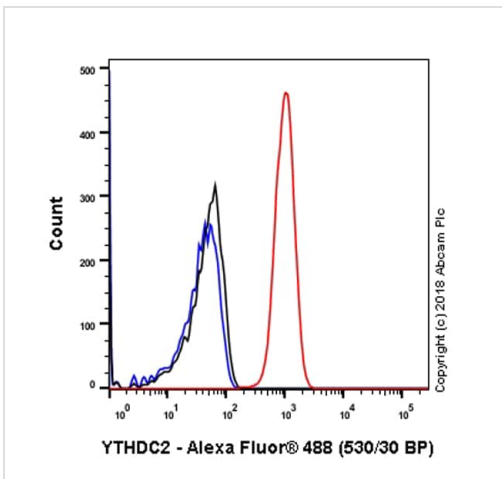


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling YTHDC2 with ab220160 at 1/500 dilution (1.19 ug/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on human testis (PMID:28380054). Counterstained with Hematoxylin.

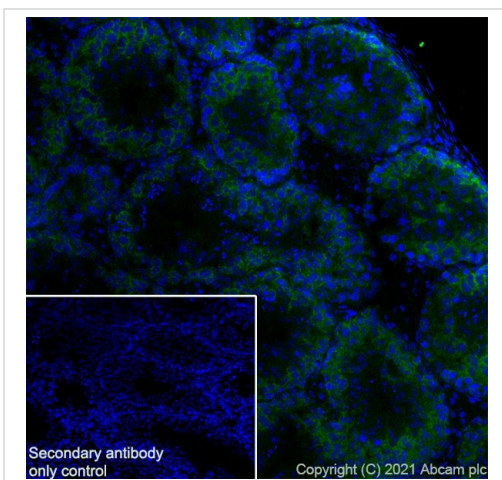
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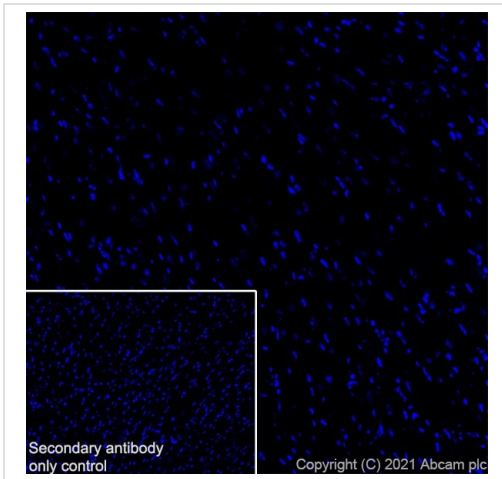
Flow Cytometry (Intracellular) - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labelling YTHDC2 with ab220160 at 1/600 (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.



Immunohistochemistry (Frozen sections) - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

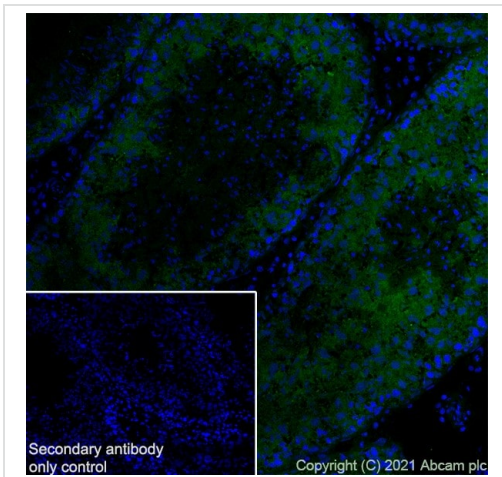
Immunohistochemical analysis of 4% paraformaldehyde fixed, 0.2% Triton X-100 permeabilised mouse testis tissue labeling YTHDC2 with ab220160 at 1/50 dilution (11 ug/mL). Followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (2 ug/mL). Showing cytoplasmic staining on mouse testis. Nuclear counterstain: DAPI.



Immunohistochemistry (Frozen sections) - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

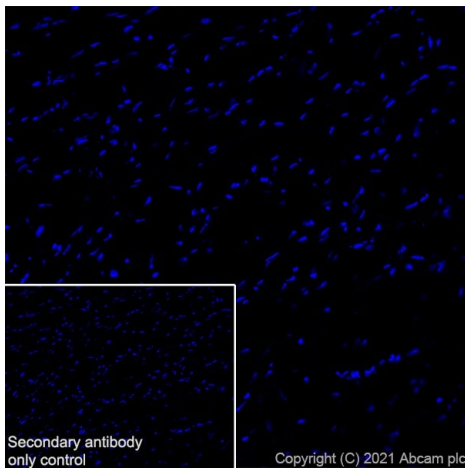
**Negative control:** (PMID: 29087293)

Immunohistochemical analysis of 4% paraformaldehyde fixed, 0.2% Triton X-100 permeabilised mouse heart tissue labeling YTHDC2 with ab220160 at 1/50 dilution (11 ug/mL). Followed by [ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (2 ug/mL). No staining observed on mouse heart. Nuclear counterstain: DAPI.



Immunohistochemistry (Frozen sections) - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

Immunohistochemical analysis of 4% paraformaldehyde fixed, 0.2% Triton X-100 permeabilised rat testis tissue labeling YTHDC2 with ab220160 at 1/50 dilution (11 ug/mL). Followed by [ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (2 ug/mL). Showing cytoplasmic staining on rat testis. Nuclear counterstain: DAPI.







**Negative control:** (PMID: 29087293)

Immunohistochemical analysis of 4% paraformaldehyde fixed, 0.2% Triton X-100 permeabilised rat heart tissue labeling YTHDC2 with ab220160 at 1/50 dilution (11 ug/mL). Followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (2 ug/mL). No staining observed on rat heart. Nuclear counterstain: DAPI.

Immunohistochemistry (Frozen sections) - Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

Why choose a recombinant antibody?

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

Anti-YTHDC2 antibody [EPR21820-49] (ab220160)

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