abcam

Product datasheet

Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free ab259277

敲除验证 重组 RabMAb

1 References 11 图像

概述

产品名称	Anti-YTHDC2抗体[EPR21820-49] - BSA and Azide free
描述	兔单克隆抗体[EPR21820-49] to YTHDC2 - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), IHC-P, IP, WB, IHC-Fr **不适用于:** ICC/IF
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	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.
常规说明	ab259277 is the carrier-free version of **ab220160**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR21820-49
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab259277**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。

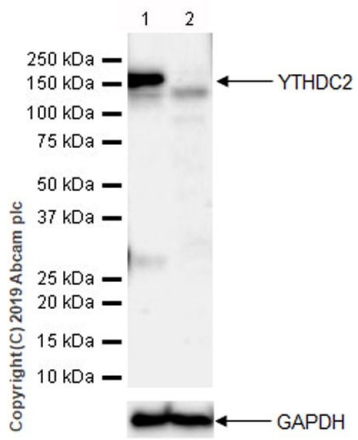
应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 160 kDa (predicted molecular weight: 160 kDa).
IHC-Fr		Use at an assay dependent concentration.

应用说明 Is unsuitable for ICC/IF.

靶标

序列相似性	Belongs to the DEAD box helicase family. DEAH subfamily. Contains 2 ANK repeats. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain. Contains 1 R3H domain. Contains 1 YTH domain.

图片



Western blot - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

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

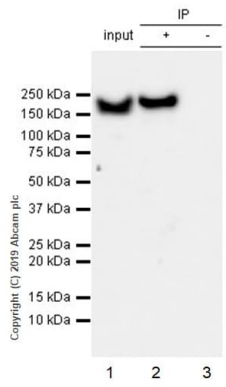
Exposure time: 3 minutes

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab220160**).



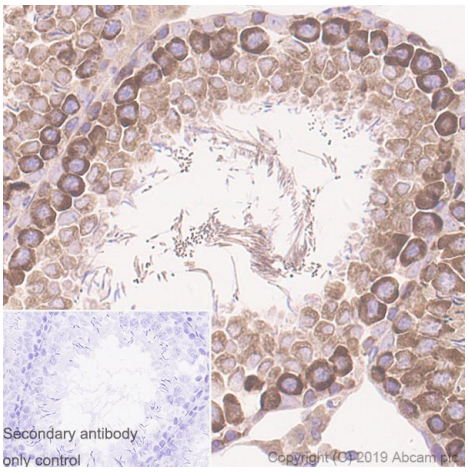
Immunoprecipitation - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

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: **ab220160**IP 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab220160**).



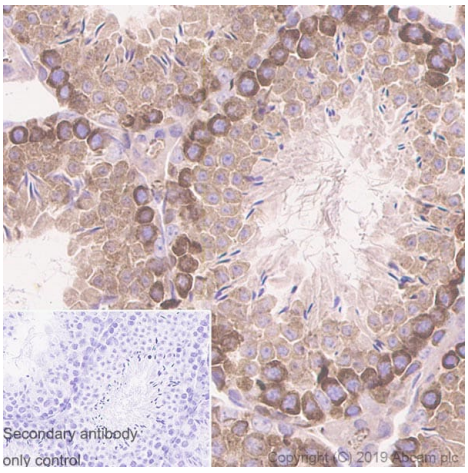
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab220160**).



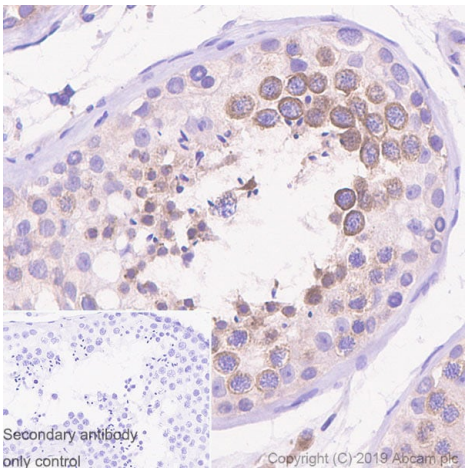
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab220160**).



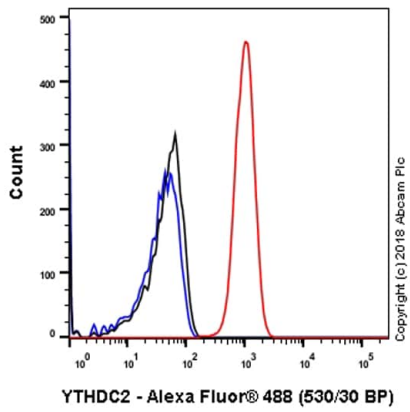
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

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.

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).

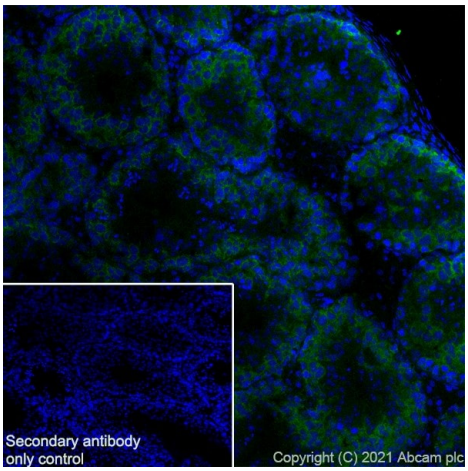
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab220160**).



Flow Cytometry (Intracellular) - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

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.

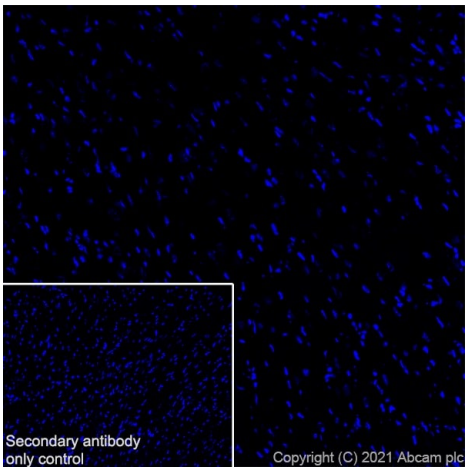
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab220160**).



Immunohistochemistry (Frozen sections) - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**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.

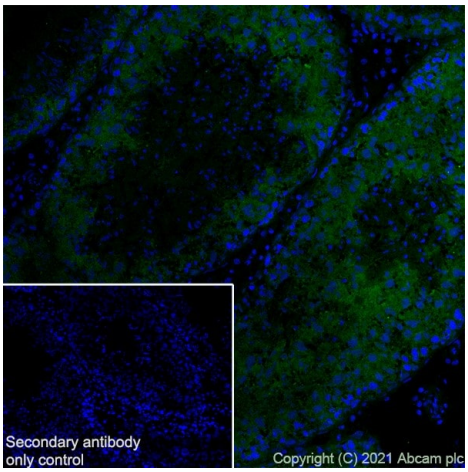


Immunohistochemistry (Frozen sections) - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab220160**).

Negative control: (PMID: 29087293)

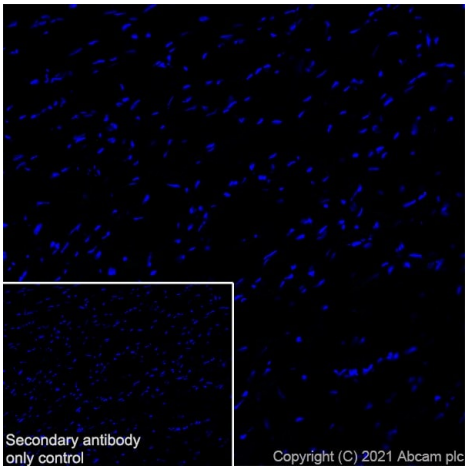
Immunohistochemical analysis of 4% paraformaldehyde fixed, 0.2% Triton X-100 permeabilised mouse heart tissue labeling YTHDC2 with **ab220160** at 1/50 dilution (11 ug/mL). Followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (2 ug/mL). No staining observed on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



Immunohistochemistry (Frozen sections) - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**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.



Immunohistochemistry (Frozen sections) - Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

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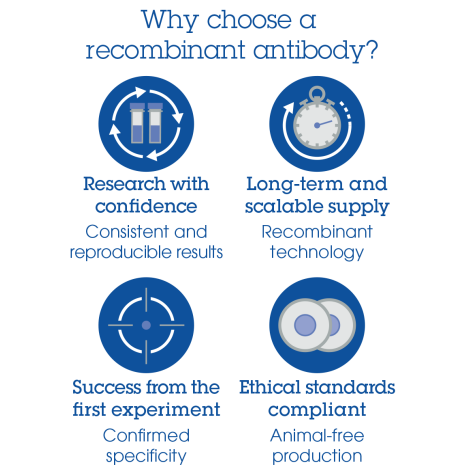

Anti-YTHDC2 antibody [EPR21820-49] - BSA and Azide free (ab259277)

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