abcam

Product datasheet

Anti-YTHDC1 antibody [EPR21821] ab220159

Recombinant RabMAb

1 References 7 Images

Overview

Product name	Anti-YTHDC1 antibody [EPR21821]
Description	Rabbit monoclonal [EPR21821] to YTHDC1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P **Unsuitable for:** Flow Cyt,ICC/IF or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Sheep, Goat, Horse, Guinea pig, Cow, Cat, Dog, Pig
Immunogen	Recombinant fragment within Human YTHDC1 aa 300-550. The exact sequence is proprietary. Database link: Q96MU7
Positive control	WB: HeLa transfected with scrambled siRNA control whole cell lysate; Human brain tissue lysate; K562, C6, RAW 246.7, PC-12 and NIH/3T3 whole cell lysate. IHC-P: Human testis, endometrial carcinoma, mouse testis and rat spleen tissue.
General notes	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.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR21821
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab220159** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

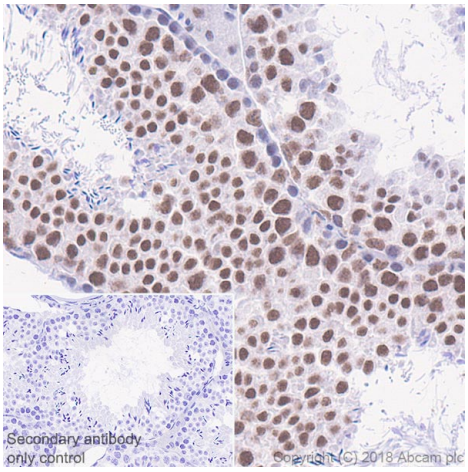
Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 95, 100 kDa (predicted molecular weight: 85 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Application notes	Is unsuitable for Flow Cyt,ICC/IF or IP.

Target

Function	May be part of a signal transduction pathway that influences splice site selection.
Sequence similarities	Contains 1 YTH domain.
Cellular localization	Nucleus. Localizes to a novel subnuclear structure, the YT bodies.

Images



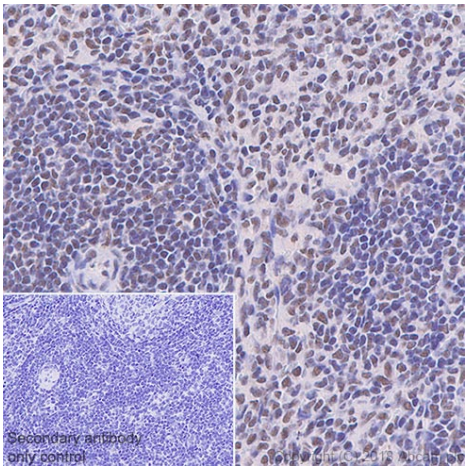
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC1 antibody [EPR21821] (ab220159)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue stained for YTHDC1 with ab220159 at 1/500 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on mouse testis (PMID: 27602518; PMID: 29103884) is observed. Counterstained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

The section was incubated with ab220159 for 30 mins at 37I. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



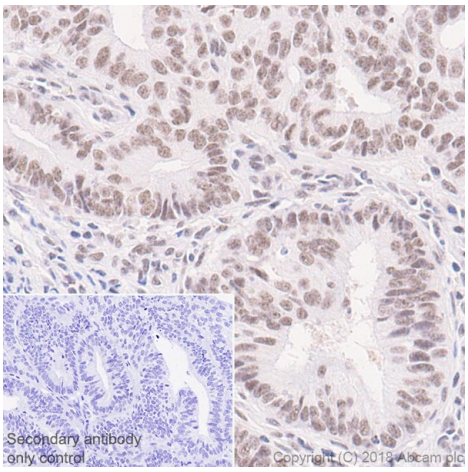
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC1 antibody [EPR21821] (ab220159)

Immunohistochemical analysis of paraffin-embedded rat spleen tissue stained for YTHDC1 with ab220159 at 1/500 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on rat spleen (PMID: 27602518; PMID: 29103884) is observed. Counterstained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

The section was incubated with ab220159 for 30 mins at 37I. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



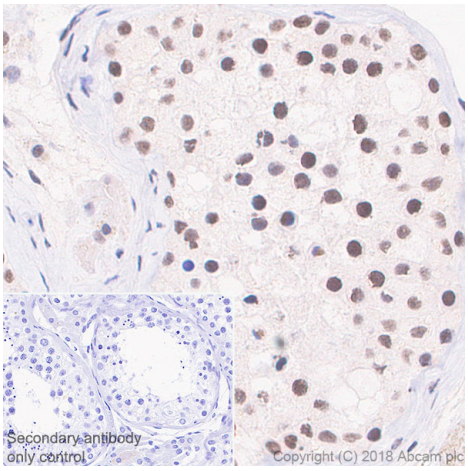
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC1 antibody [EPR21821] (ab220159)

Immunohistochemical analysis of paraffin-embedded human endometrial carcinoma tissue stained for YTHDC1 with ab220159 at 1/500 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on human endometrial carcinoma (PMID: 27602518; PMID: 29103884) is observed. Counterstained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

The section was incubated with ab220159 for 30 mins at 37I. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



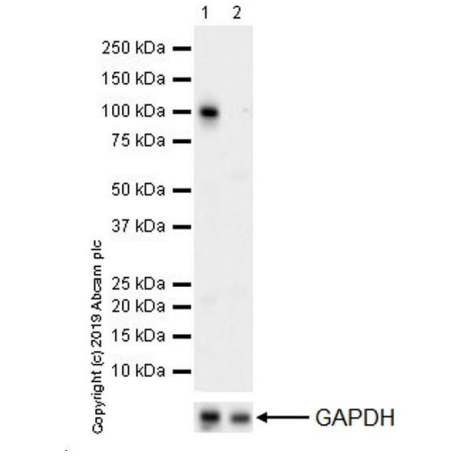
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDC1 antibody [EPR21821] (ab220159)

Immunohistochemical analysis of paraffin-embedded human testis tissue stained for YTHDC1 with ab220159 at 1/500 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on human testis (PMID: 27602518; PMID: 29103884) is observed. Counterstained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

The section was incubated with ab220159 for 30 mins at 37I. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-YTHDC1 antibody [EPR21821] (ab220159)

All lanes : Anti-YTHDC1 antibody [EPR21821] (ab220159) at 1/5000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) transfected with scrambled siRNA control whole cell lysate
Lane 2 : YTHDC1 knockdown HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

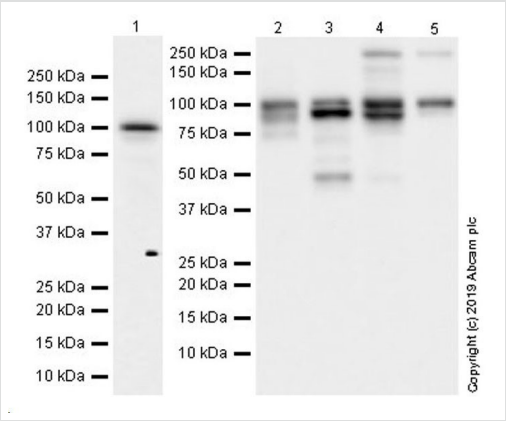
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 85 kDa
Observed band size: 100 kDa
why is the actual band size different from the predicted?

Exposure time: 59 seconds

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

The control and YTHDC1 knockdown cell lysates were kindly provided by an anonymous collaborator.



Western blot - Anti-YTHDC1 antibody [EPR21821] (ab220159)

Lane 1 : Anti-YTHDC1 antibody [EPR21821] (ab220159) at 1/5000 dilution
Lanes 2-5 : Anti-YTHDC1 antibody [EPR21821] (ab220159) at 1/1000 dilution

Lane 1 : K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate
Lane 2 : C6 (rat glial tumor glial cell) whole cell lysate
Lane 3 : RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate
Lane 4 : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate
Lane 5 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate

Lysates/proteins at 10 µg per lane.

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

Predicted band size: 85 kDa
Observed band size: 100,95 kDa why is the actual band size different from the predicted?

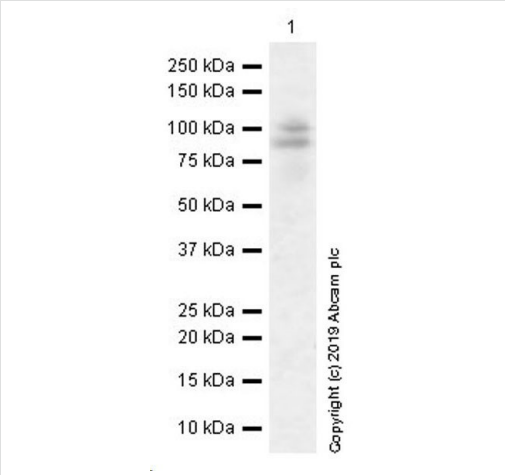
Blocking/diluting buffer and concentration: 5% NFDM/TBST

The doublet observed is consistent with what has been shown in the literature (PMID: 26876937). The second band may represent the isoform 2 of YTHDC1 (PMID: 23765422).

Exposure times:

Lane 1:70 seconds;

Lanes 2-5: 48 seconds.



Western blot - Anti-YTHDC1 antibody [EPR21821] (ab220159)

Anti-YTHDC1 antibody [EPR21821] (ab220159) at 1/1000 dilution + Human brain tissue lysate at 20 µg

Secondary

VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Predicted band size: 85 kDa
Observed band size: 100,95 kDa why is the actual band size different from the predicted?

Exposure time: 3 minutes

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

The doublet observed is consistent with what has been shown in the literature (PMID: 26876937). The second band may represent the isoform 2 of YTHDC1 (PMID: 23765422).

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