

Product datasheet

Anti-YTHDF2 antibody [EPR23544-19] ab246514

Recombinant RabMAb

★★★★☆ [3 Abreviews](#) [6 References](#) [12 Images](#)

Overview

Product name	Anti-YTHDF2 antibody [EPR23544-19]
Description	Rabbit monoclonal [EPR23544-19] to YTHDF2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, Flow Cyt (Intra), IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, LNCaP, MEF and PC-12 whole cell lysates; His-tagged human YTHDF2 recombinant protein. IHC-P: Human testis tissue; Mouse testis tissue; Rat testis tissue. ICC/IF: HeLa and NIH/3T3 cells. Flow Cyt (intra): HeLa and NIH/3T3 cells. IP: HeLa and NIH/3T3 whole cell lysates.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	EPR23544-19
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab246514 in the following tested applications.

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

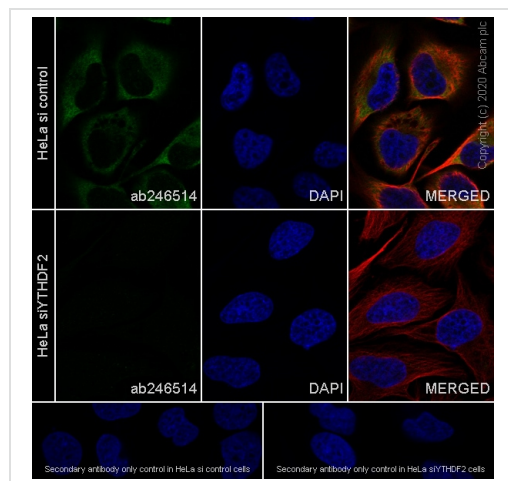
Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000. Detects a band of approximately 62 kDa (predicted molecular weight: 62 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF	★★★★☆ (2)	1/50.
Flow Cyt (Intra)		1/500.
IP		1/30.

Target

Sequence similarities

Contains 1 YTH domain.

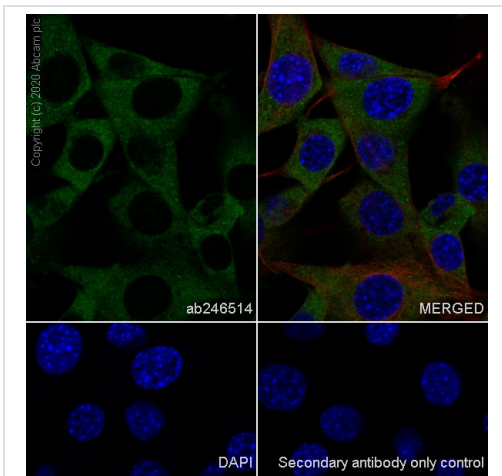
Images



Immunocytochemistry/ Immunofluorescence - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial adenocarcinoma cell line) (siRNA control) and HeLa (siRNA YTHDF) cells labelling YTHDF2 with ab246514 at 1/100 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in HeLa cell line transfected with scramble siRNA and reduced staining in HeLa cell line transfected with siRNA YTHDF2. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor[®] 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

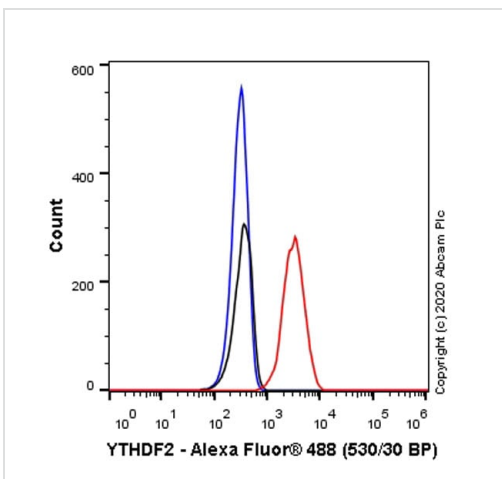
Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryo fibroblast cell line) cells labelling YTHDF2 with ab246514 at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in NIH/3T3 cell line. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

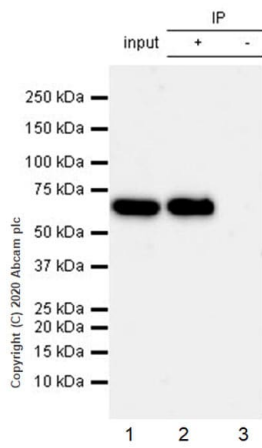
Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling YTHDF2 with ab246514 at 1/500 dilution (0.1ug) (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.



Immunoprecipitation - Anti-YTHDF2 antibody
[EPR23544-19] (ab246514)

YTHDF2 was immunoprecipitated from 0.35 mg NIH/3T3 (mouse embryonic fibroblast cell line) whole cell lysate with ab246514 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab246514 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

Lane 1: NIH/3T3 whole cell lysate 10 ug

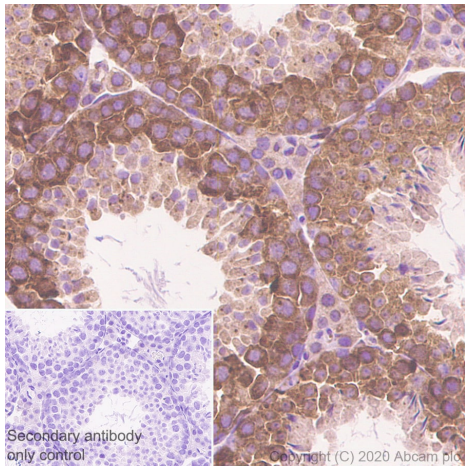
Lane 2: ab246514 IP in NIH/3T3 whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab246514 in NIH/3T3 whole cell lysate

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

Exposure time: 84 seconds.

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

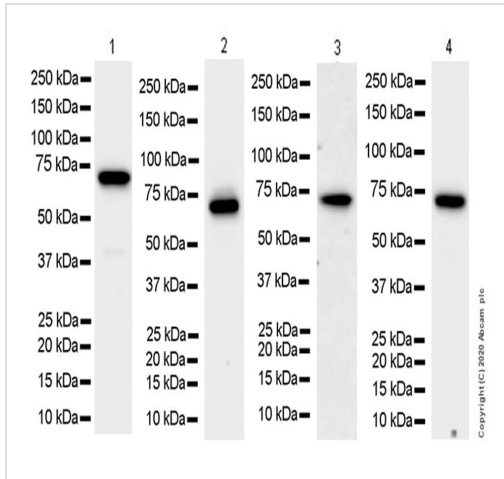


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDF2 antibody
[EPR23544-19] (ab246514)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling YTHDF2 with ab246514 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Cytoplasmic staining in mouse testis (PMID: 30903744, PMID: 29103884). The section was incubated with ab246514 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Western blot - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

All lanes : Anti-YTHDF2 antibody [EPR23544-19] (ab246514) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : LNCaP (human prostate carcinoma epithelial cell) whole cell lysate

Lane 3 : MEF (mouse embryonic fibroblast (immortalized)) whole cell lysate

Lane 4 : 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), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution

Predicted band size: 62 kDa

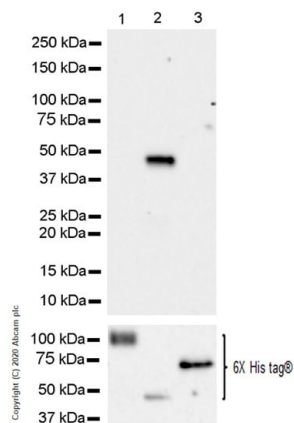
Observed band size: 62 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure times: Lanes 1-2: 37 seconds; Lane 3: 180 seconds; Lane 4: 37 seconds.

The molecular mass observed is consistent with the literature (PMID: 28104805).

Lysates should be made freshly and used in WB immediately to minimize protein degradation.



Western blot - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

All lanes : Anti-YTHDF2 antibody [EPR23544-19] (ab246514) at 1/5000 dilution

Lane 1 : LIF-His-tagged human YTHDF1 recombinant protein, 10 ng

Lane 2 : His-tagged human YTHDF2 recombinant protein, 10 ng

Lane 3 : His-tagged human YTHDF3 recombinant protein, 10 ng

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution

Predicted band size: 62 kDa

Observed band size: 62 kDa

Blocking and dilution buffer: 5% NFD/MTBST.

Exposure time: 59 seconds.

These rec proteins were made in house.

LIF-His-tagged human YTHDF1 recombinant protein was expressed from a mammalian - HEK-293 expression system.

His-tagged human YTHDF2 recombinant protein is extracts of E.coli expressing YTHDF2.

His-tagged human YTHDF3 recombinant protein is extracts of E.coli expressing YTHDF3.



Immunoprecipitation - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

YTHDF2 was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell line) whole cell lysate with ab246514 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab246514 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

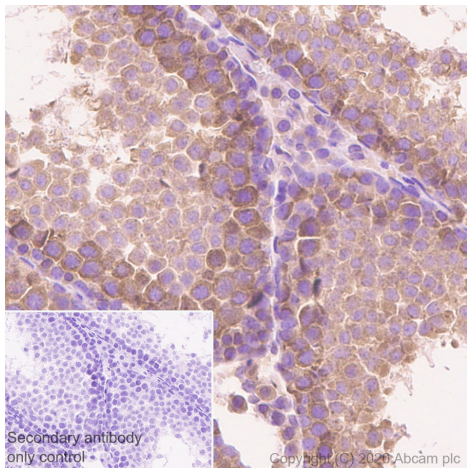
Lane 1: HeLa whole cell lysate 10 ug

Lane 2: ab246514 IP in HeLa whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab246514 in HeLa whole cell lysate

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 10 seconds.

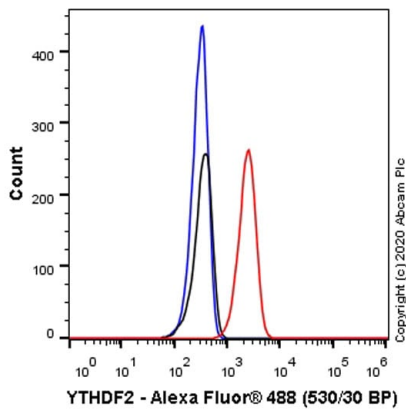


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling YTHDF2 with ab246514 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining in rat testis (PMID: 30903744, PMID: 29103884). The section was incubated with ab246514 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

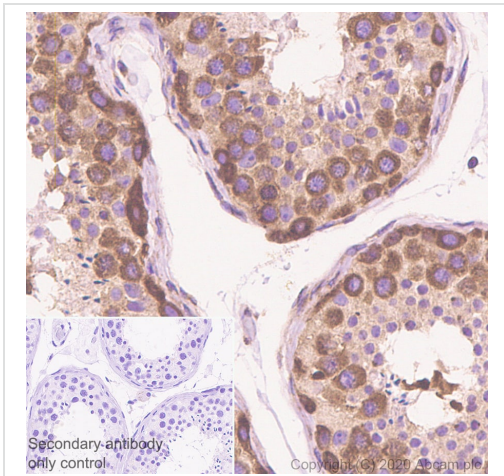
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized NIH/3T3 (Mouse embryonic fibroblast cell line) cells labelling YTHDF2 with ab246514 at 1/500 dilution (0.1ug) (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 (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling YTHDF2 with ab246514 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining in human testis (PMID: 30903744, PMID: 29103884). The section was incubated with ab246514 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Why choose a recombinant antibody?

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

Anti-YTHDF2 antibody [EPR23544-19] (ab246514)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors