

## Product datasheet

### Anti-YTHDF1 antibody [EPR22349-41] ab220162

KO VALIDATED

Recombinant

RabMAb

[14 References](#) [6 Images](#)

#### Overview

Product name	Anti-YTHDF1 antibody [EPR22349-41]
Description	Rabbit monoclonal [EPR22349-41] to YTHDF1
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IP <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IHC-P
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: GST-tagged human YTHDF1 recombinant protein. Wild-type mESC whole cell lysate. HepG2, NIH/3T3 and HeLa whole cell lysate. Human brain lysate. Rat testis lysate. IP: YTHDF1 IP in HepG2 whole cell lysate.
General notes	<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>

#### 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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22349-41

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab220162 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. Predicted molecular weight: 61 kDa.
IP		1/30.

### Application notes

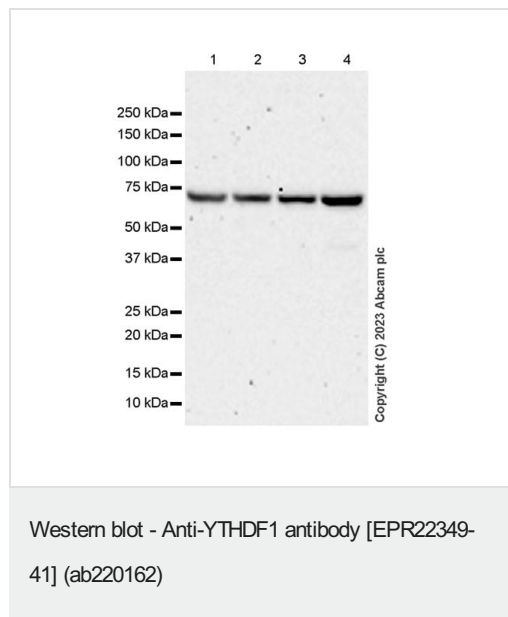
Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

## Target

### Sequence similarities

Contains 1 YTH domain.

## Images



**All lanes** : Anti-YTHDF1 antibody [EPR22349-41] (ab220162) at 1/1000 dilution

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

**Lane 2** : 293T (human embryonic kidney epithelial cell) whole cell lysate

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

**Lane 4** : PC-12 (rat adrenal gland pheochromocytoma cell) 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:** 61 kDa

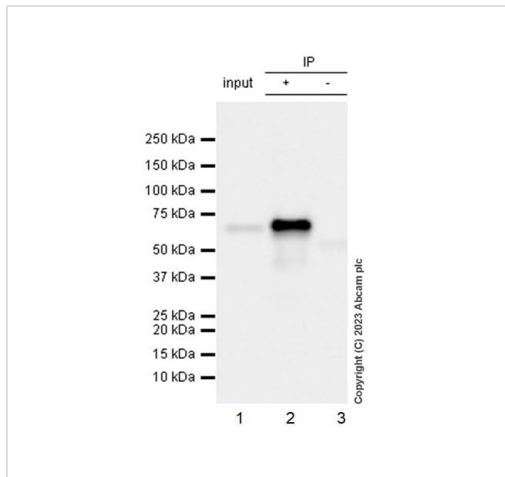
**Observed band size:** 60 kDa

**Exposure time:** 180 seconds

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

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

Imaging carried out using iBright CL 1000 Imaging System



Immunoprecipitation - Anti-YTHDF1 antibody  
[EPR22349-41] (ab220162)

YTHDF1 was immunoprecipitated from HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate with ab220162 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab220162 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

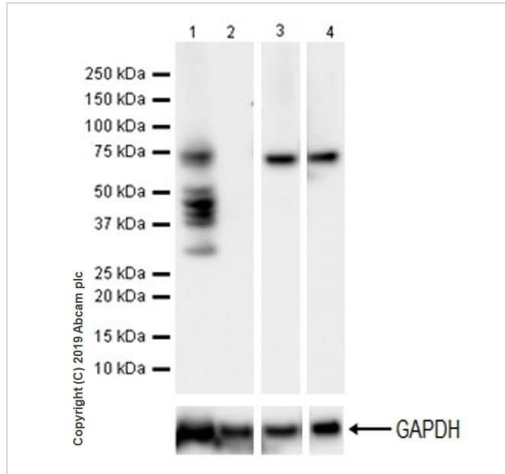
**Lane 1:** HeLa whole cell lysate 10 µg (Input).

**Lane 2:** ab220162 IP in HeLa whole cell lysate.

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab220162 in HeLa whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.

Lysate was freshly made and used for Western blotting immediately to minimize protein degradation.



Western blot - Anti-YTHDF1 antibody [EPR22349-41] (ab220162)

**All lanes :** Anti-YTHDF1 antibody [EPR22349-41] (ab220162) at 1/1000 dilution

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

**Lane 2 :** YTHDF1 knockout mESC whole cell lysate

**Lane 3 :** HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate

**Lane 4 :** HeLa (human cervix adenocarcinoma epithelial cell) 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:** 61 kDa

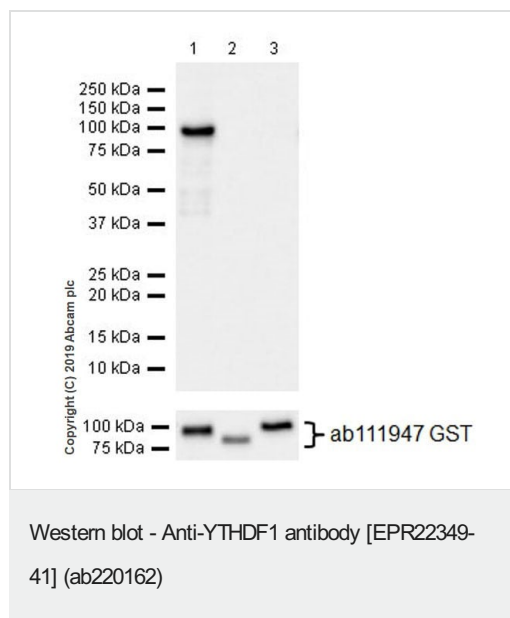
**Observed band size:** 61 kDa

The wild-type and YTHDF1 knockout cell lysates were kindly provided by an anonymous collaborator.

ab220162 was shown to specifically react with YTHDF1 in wild-type mESC cells as signal was lost in YTHDF1 knockout cells. Wild-type and YTHDF1 knockout samples were subjected to SDS-PAGE. ab220162 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. The blot was developed on a BIO-RAD<sup>®</sup> ChemiDoc<sup>™</sup> MP instrument using the ECL technique.

Exposure times: Lanes 1 and 2: 59 seconds; Lanes 3 and 4: 26 seconds.

Blocking/Dilution buffer: 5% NFDm/TBST.



**All lanes** : Anti-YTHDF1 antibody [EPR22349-41] (ab220162) at 1/1000 dilution

**Lane 1** : GST-tagged human YTHDF1 recombinant protein, 20 ng

**Lane 2** : GST-tagged human YTHDF2 recombinant protein, 20 ng

**Lane 3** : GST-tagged human YTHDF3 recombinant protein, 20 ng

#### Secondary

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

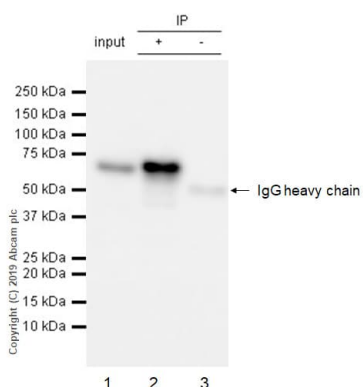
**Predicted band size:** 61 kDa

**Observed band size:** 87 kDa

**Exposure time:** 3 seconds

The YTHDF recombinant proteins were kindly provided by an anonymous collaborator.

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunoprecipitation - Anti-YTHDF1 antibody  
[EPR22349-4] (ab220162)

YTHDF1 was immunoprecipitated from 0.35 mg HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate with ab220162 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab220162 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

**Lane 1:** HepG2 whole cell lysate 10 µg (Input).

**Lane 2:** ab220162 IP in HepG2 whole cell lysate.

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab220162 in HepG2 whole cell lysate.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 3 seconds.

Lysate were made freshly and used in IP test immediately to minimize protein degradation. Incubation time was 2h.

#### 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-YTHDF1 antibody [EPR22349-41] (ab220162)

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

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