

## Product datasheet

### Anti-TMUB1 antibody [EPR14066] ab180586


KO VALIDATED

Recombinant

RabMAb

[2 References](#) [7 Images](#)

#### Overview

Product name	Anti-TMUB1 antibody [EPR14066]
Description	Rabbit monoclonal [EPR14066] to TMUB1
Host species	Rabbit
Tested applications	<b>Suitable for:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human fetal liver tissue lysate, Human cerebellum tissue lysate, HeLa cells, HepG2 cells, Human liver tissue.
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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14066
Isotype	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab180586 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
Flow Cyt (Intra)		1/70. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000 - 1/50000. Detects a band of approximately 24, 27 kDa (predicted molecular weight: 26 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/500.

## Target

### Function

May contribute to the regulation of translation during cell-cycle progression. May contribute to the regulation of cell proliferation.

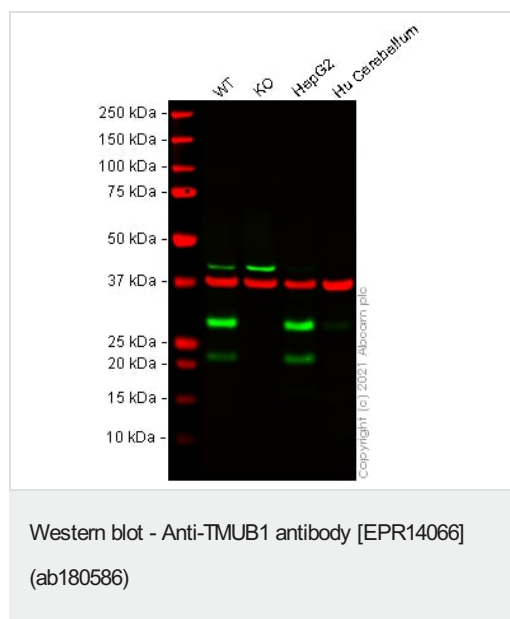
### Sequence similarities

Contains 1 ubiquitin-like domain.

### Cellular localization

Membrane. Cytoplasm. Nucleus. Predominantly nuclear during growth arrest (By similarity).  
Actively exported from the nucleus in dividing cells.

## Images



**All lanes :** Anti-TMUB1 antibody [EPR14066] (ab180586) at 1/10000 dilution

**Lane 1 :** Wild-type HeLa cell lysate

**Lane 2 :** TMUB1 knockout HeLa cell lysate

**Lane 3 :** HepG2 cell lysate

**Lane 4 :** Human Cerebellum tissue lysate

Lysates/proteins at 20 µg per lane.

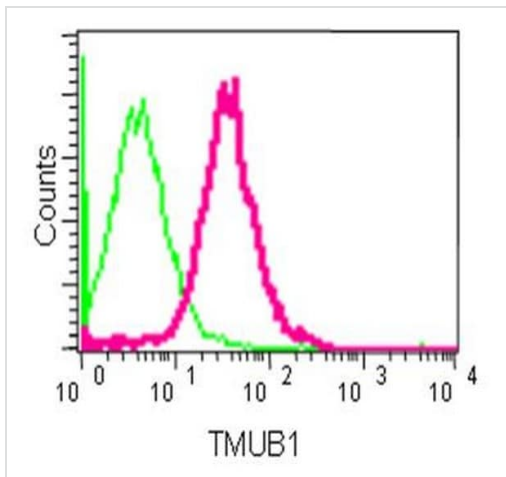
Performed under reducing conditions.

**Predicted band size:** 26 kDa

**Observed band size:** 27 kDa

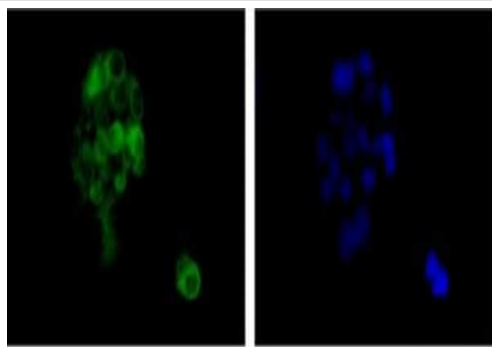
**Lanes 1 - 4:** Merged signal (red and green). Green - ab180586 observed at 27 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab180586 was shown to react with TMUB1 in wild-type HeLa cells in Western blot with loss of signal observed in TMUB1 knockout cell line **ab278130** (knockout cell lysate **ab278185**). Wild-type HeLa and TMUB1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab180586 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



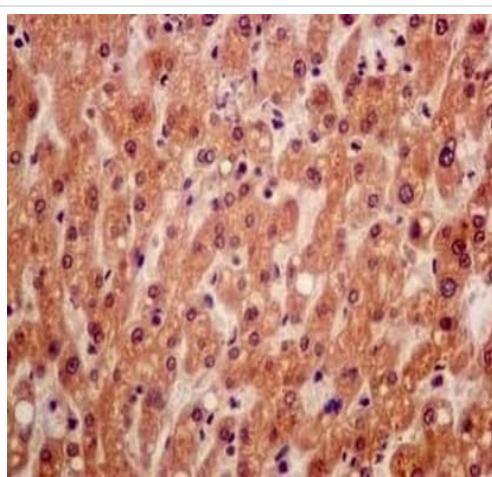
Intracellular flow cytometric analysis of 2% paraformaldehyde fixed HeLa cells labeling TMUB1 with ab180586 at 1/70 (pink). Control shown in green.

Flow Cytometry (Intracellular) - Anti-TMUB1 antibody [EPR14066] (ab180586)



Immunocytochemistry/ Immunofluorescence - Anti-TMUB1 antibody [EPR14066] (ab180586)

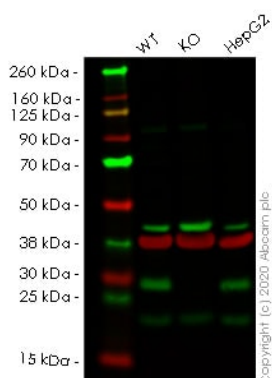
Immunofluorescent analysis of 4% paraformaldehyde fixed HepG2 cells labeling TMUB1 with ab180586 at 1/500 (green). Dapi staining shown in blue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMUB1 antibody [EPR14066] (ab180586)

Immunohistochemical analysis of paraffin embedded Human liver tissue labeling TMUB1 with ab180586 at 1/100.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-TMUB1 antibody [EPR14066] (ab180586)

**All lanes :** Anti-TMUB1 antibody [EPR14066] (ab180586) at 1/10000 dilution

**Lane 1 :** Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

**Lane 2 :** TMUB1 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

**Lane 3 :** HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate

Lysates/proteins at 20 µg per lane.

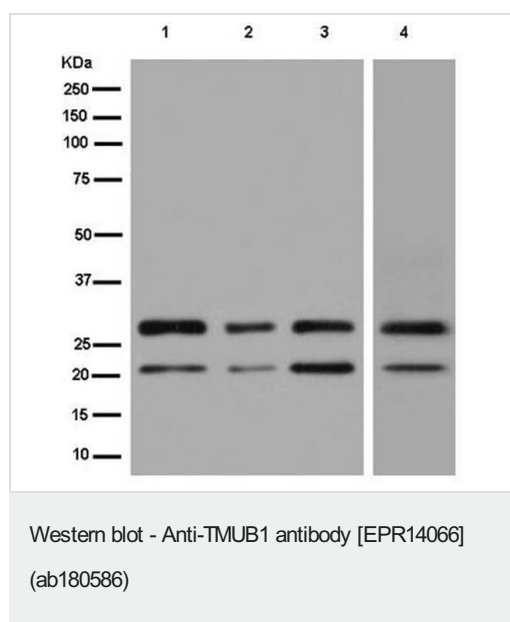
Performed under reducing conditions.

**Predicted band size:** 26 kDa

**Observed band size:** 27 kDa

**Lanes 1- 3:** Merged signal (red and green). Green - ab180586 observed at 27 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) observed at 37 kDa.

ab180586 was shown to react with TMUB1 in wild-type HeLa (Human epithelial line from cervix adenocarcinoma) cells in western blot. Loss of signal was observed when knockout cell line [ab265852](#) (knockout cell lysate [ab258237](#)) was used. Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) and TMUB1 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab180586 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



**All lanes :** Anti-TMUB1 antibody [EPR14066] (ab180586) at 1/50000 dilution

**Lane 1 :** Human fetal liver tissue lysate at 20 µg

**Lane 2 :** Human cerebellum tissue lysate at 20 µg

**Lane 3 :** HepG2 cell line lysate lysate at 20 µg

**Lane 4 :** HeLa cell line lysate at 10 µg

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 26 kDa

**Observed band size:** 27 kDa

**Additional bands at:** 24 kDa (possible cleavage fragment)

### 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-TMUB1 antibody [EPR14066] (ab180586)

**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