abcam

ab250234

Anti-TMUB1 antibody [EPR14066] - BSA and Azide free

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR14066
Purification technique	Affinity purification Protein A
Concentration	1.057 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information TMUB1

Function	Involved in sterol-regulated ubiquitination and degradation of HMG-CoA reductase HMGCR (PubMed:21343306). Involved in positive regulation of AMPA-selective glutamate receptor GRIA2 recycling to the cell surface (By similarity). Acts as a negative regulator of hepatocyte growth during regeneration (By similarity). iHOPS. May contribute to the regulation of translation during cell-cycle progression. May contribute to the regulation of cell proliferation (By similarity). May be involved in centrosome assembly. Modulates stabilization and nucleolar localization of tumor suppressor CDKN2A and enhances association between CDKN2A and NPM1 (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250234 is the carrier-free version of ab180586.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

Compatibility
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.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

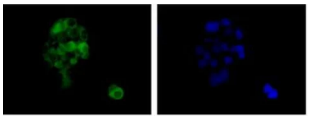
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

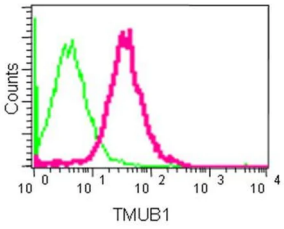
6 product images



Immunocytochemistry/ Immunofluorescence - Anti-TMUB1 antibody [EPR14066] - BSA and Azide free (ab250234)

TMUB1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TMUB1 antibody

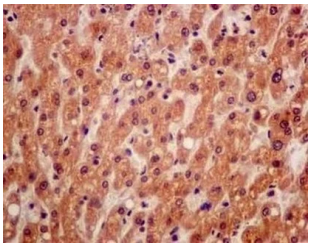
This data was developed using ab180586, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% paraformaldehyde fixed HepG2 cells labeling TMUB1 with ab180586 at 1/500 (green). Dapi staining shown in blue.



Flow Cytometry (Intracellular) - Anti-TMUB1 antibody [EPR14066] - BSA and Azide free (ab250234)

TMUB1 Flow Cytometry (Intracellular) staining using rabbit Anti-TMUB1 antibody

This data was developed using ab180586, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 2% paraformaldehyde fixed HeLa cells labeling TMUB1 with ab180586 at 1/70 (pink). Control shown in green.

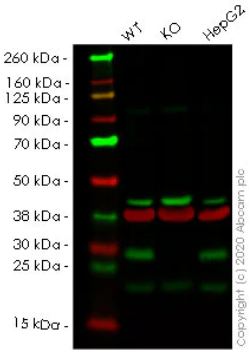


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMUB1 antibody [EPR14066] - BSA and Azide free (ab250234)

TMUB1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TMUB1 antibody

This data was developed using ab180586, the same antibody clone in a different buffer formulation.
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] - BSA and Azide free (ab250234)

TMUB1 Western blot staining using rabbit Anti-TMUB1 antibody

This data was developed using the same antibody clone in a different buffer formulation (ab180586).
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:
Western blot - Anti-TMUB1 antibody [EPR14066] (ab180586) at 1/10000 dilution

Lane 1:
Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate at 20 µg

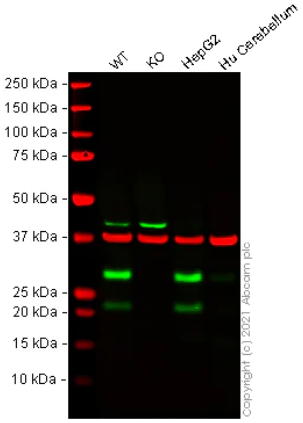
Lane 2:
Western blot - Human TMUB1 knockout HeLa cell lysate (ab258237) at 20 µg

Lane 3:
HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 26 kDa

Observed band size: 27 kDa



Western blot - Anti-TMUB1 antibody [EPR14066] - BSA and Azide free (ab250234)

TMUB1 Western blot staining using rabbit Anti-TMUB1 antibody

This data was developed using the same antibody clone in a different buffer formulation (ab180586).
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.

All lanes:

Western blot - Anti-TMUB1 antibody [EPR14066] (ab180586) at 1/10000 dilution

Lane 1:
Wild-type HeLa cell lysate at 20 µg

Lane 2:
TMUB1 knockout HeLa cell lysate at 20 µg

Lane 2:
Western blot - Human TMUB1 knockout HeLa cell line (ab278130)

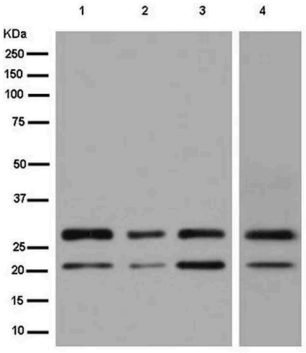
Lane 3:
HepG2 cell lysate at 20 µg

Lane 4:
Human Cerebellum tissue lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 26 kDa

Observed band size: 27 kDa



Western blot - Anti-TMUB1 antibody [EPR14066] - BSA and Azide free (ab250234)

This data was developed using ab180586, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - 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: 24 kDa, 27 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.