abcam

Product datasheet

Anti-TMUB1 antibody [EPR14066] - BSA and Azide free ab250234

KO VALIDATED Recombinant RabMAb

7 Images

Overview

Product name	Anti-TMUB1 antibody [EPR14066] - BSA and Azide free
Description	Rabbit monoclonal [EPR14066] to TMUB1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IHC-P, ICC/IF, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** 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	ab250234 is the carrier-free version of **ab180586**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. 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. 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. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14066
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250234 in the following tested applications.

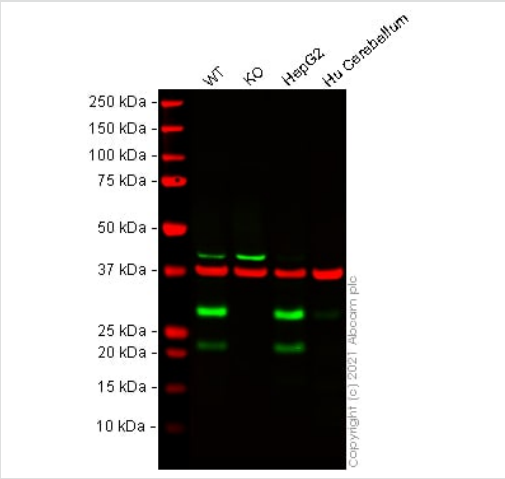
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 24, 27 kDa (predicted molecular weight: 26 kDa).

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



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

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.

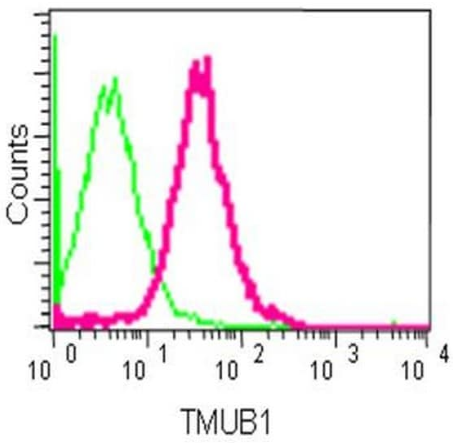
Performed under reducing conditions.

Predicted band size: 26 kDa
Observed band size: 27 kDa

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.

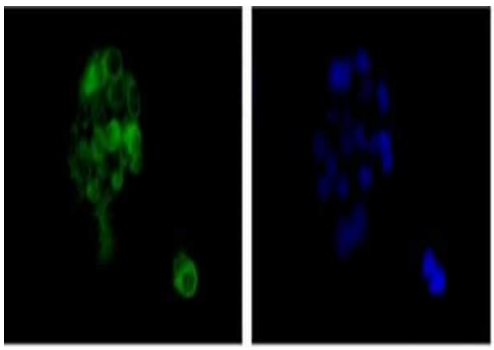
ab180586 was shown to react with TMUB1 in wild-type HeLa cells in Western blot with loss of signal observed in TMUB1 knockout cell line **ab278130** (knockout cell lysate **ab278185**). Wild-type HeLa and TMUB1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western 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.



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

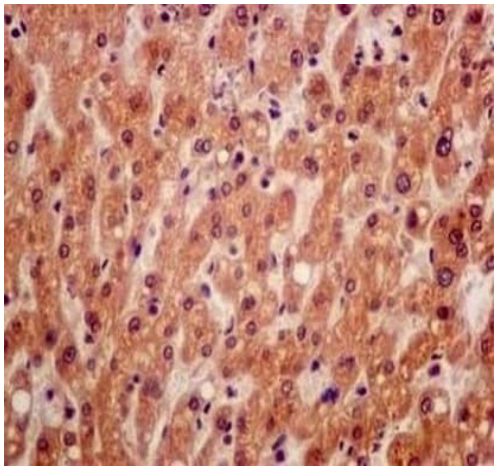
This data was developed using **ab180586**, the same antibody clone in a different buffer formulation.

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



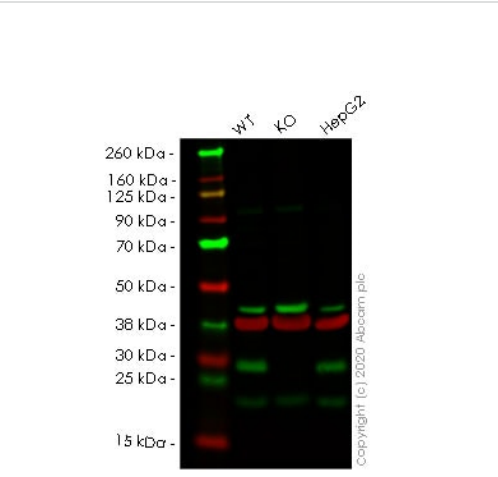
Immunocytochemistry/ Immunofluorescence - Anti-TMUB1 antibody [EPR14066] - BSA and Azide free (ab250234)

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.



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

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)

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 cell lysate

Lysates/proteins at 20 µg per lane.

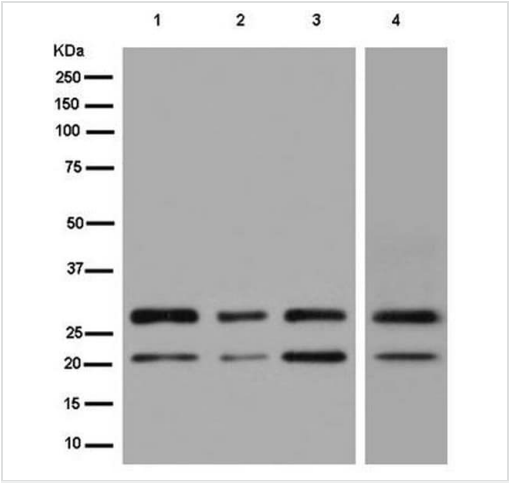
Performed under reducing conditions.

Predicted band size: 26 kDa
Observed band size: 27 kDa

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.



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

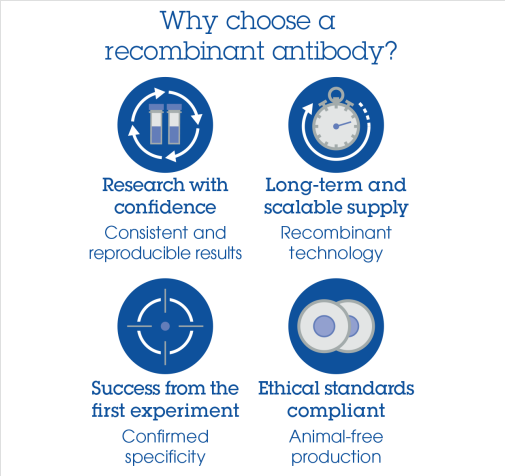
All lanes : Anti-TMUB1 antibody [EPR14066] (**ab180586**) at 1/50000 dilution

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)

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



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

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