abcam

ab186735

Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker

Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) is a rabbit monoclonal antibody detecting TOMM20 in **Western Blot, Flow Cytometry (Intra), IHC-P, IHC-Fr, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 160 publications

Lab Essentials | Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR15581-54
Purification technique	Affinity purification Protein A
Concentration	0.092 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Rat
Dilution info	1/1000 - 1/10000
Notes	-

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/250
Notes	-

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/50

Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

Species	Rat
Dilution info	1/50
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/90
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/50 - 1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/50 - 1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information TOMM20

Function	Central receptor component of the translocase of the outer membrane of mitochondria (TOM) complex essential for the recognition and translocation of cytosolically synthesized mitochondrial preproteins (PubMed:40080546). Together with TOMM22 functions as the transit peptide receptor at the surface of the mitochondrion outer membrane and facilitates the movement of preproteins into the TOM40 translocation pore (PubMed:18331822). The TOM complex associates with the ion channel VDAC2 and PINK1 kinase at depolarized mitochondria, this interaction stabilizes PINK1 at the outer mitochondrial membrane and triggers downstream mitophagy by the recruitment of the E3 ubiquitin ligase PRKN (PubMed:40080546). Required for the translocation across the mitochondrial outer membrane of cytochrome P450 monooxygenases (By similarity).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) was developed by Abcam using patented rabbit monoclonal antibody technology and is validated for use in Flow Cyt (Intra), ICC/IF, IHC-Fr, IHC-P and WB.

Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) was first used in a scientific publication in 2017 and has been cited over 161 times in peer reviewed journals. It's performance in Western Blot in human and mouse samples is trusted by the scientific community.

Abcam's high quality manufacturing and validation processes ensure Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) has high sensitivity and specificity alongside high lot-to-lot consistency and reproducibility.

Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) has 8 independent reviews from customers.

Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) specifically detects TOMM20 (UniProt ID: Q15388; Molecular weight: 17kDa) and is sold in 100 µL and 1 mL selling sizes.

Conjugation-ready, carrier free format available for antibody clone EPR15581-54 - ab232589.

Antibody clone EPR15581-54 is also available pre-conjugated to a variety of labels for your convenience - Alexa Fluor® 647, HRP, Alexa Fluor® 405, Alexa Fluor® 594, Alexa Fluor® 568, Alexa Fluor® 555, APC, PE, Alexa Fluor® 488 (ab209606, ab209951, ab210047, ab210665, ab210841, ab221292, ab225341, ab225342, ab320072).

TOMM20 is a key protein in neuro research, particularly for its role in mitochondrial function and health. It is part of the translocase of the outer mitochondrial membrane complex, essential for importing proteins into mitochondria. Researchers use TOMM20 to study mitochondrial dynamics, biogenesis and mitophagy, making it vital for understanding cellular energy metabolism and neurodegenerative diseases. Its expression helps in assessing mitochondrial integrity and function in various neurological conditions.

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.

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.

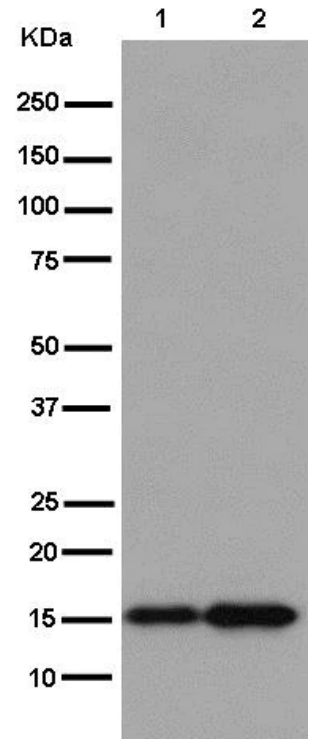
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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26 product images



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

All lanes:
Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) at 1/2000 dilution

Lane 1:
PC-12 (rat adrenal gland pheochromocytoma cell line) cell lysate at 10 µg

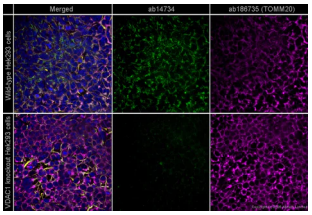
Lane 2:
NIH/3T3 (mouse embyro fibroblast cell line) cell lysate at 10 µg

Secondary

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

Predicted band size: 16 kDa

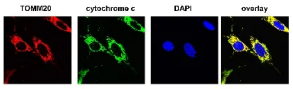
Observed band size: 16 kDa



Immunocytochemistry/ Immunofluorescence - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TOMM20 antibody

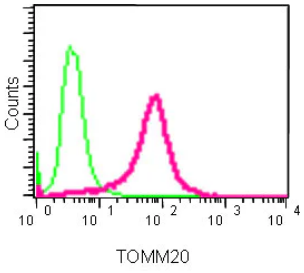
ab14734 staining VDAC1 in HEK293 (positive) and HEK293-VDAC1 KO (negative) cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated for 2 hours at room temperature with ab14734 at 1µg/ml (shown in green) and ab186735, anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (shown in magenta) and ab323238, anti-Vimentin antibody [EPR3776] - Cytoskeleton Marker – Chicken IgY Chimeric (shown in yellow) . Cells were then incubated with ab150117, Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution; ab150084, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) preadsorbed at 1/1000 dilution; and ab150175, Goat Anti-Chicken IgY H&L (Alexa Fluor® 647) preadsorbed, at 1/1000 dilution. Nuclear DNA was labelled with DAPI (shown in blue). Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunocytochemistry/ Immunofluorescence - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TOMM20 antibody

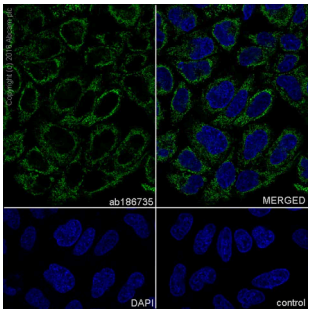
Paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized human non-small cell lung carcinoma cells labeleing TOMM20 using ab186735 at 1/400 dilution for 3 hours at room temperature. A Goat anti-Rabbit IgG (H&L) AlexaFluor® was used as secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Flow Cytometry (Intracellular) staining using rabbit Anti-TOMM20 antibody

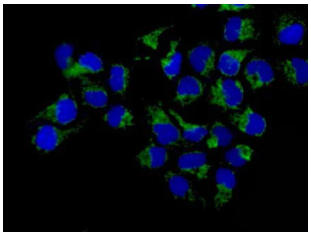
Intracellular Flow Cytometry analysis of TOMM20 expression in paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells cells using ab186735 at 1/90 dilution (red) and a rabbit IgG as negative control (green).



Immunocytochemistry/ Immunofluorescence - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TOMM20 antibody

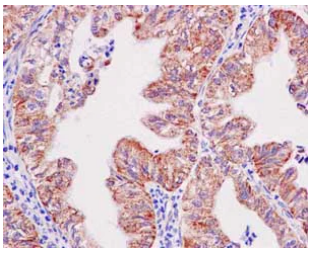
ab186735 staining TOMM20 in HeLa (human epithelial cell line from cervix adenocarcinoma) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody at a dilution of 1/500. A goat anti rabbit IgG (Alexa Fluor® 488) (ab150077) was used as the secondary antibody at a dilution of 1/1000. DAPI was used as a nuclear counterstain. Control: PBS only



Immunocytochemistry/ Immunofluorescence - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TOMM20 antibody

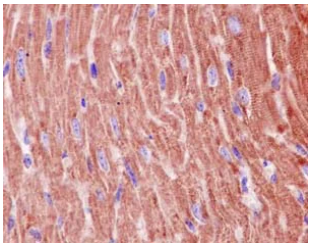
Immunofluorescence analysis of paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells, labeling TOMM20 (green) with ab186735 at 1/250 dilution. Alexa Fluor®488-conjugated goat anti-rabbit IgG was used as a secondary antibody at 1/200 dilution. Nuclei were counterstained with DAPI (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TOMM20 antibody

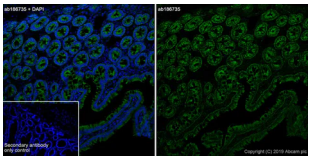
Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labeling TOMM20 with ab186735 at 1/100 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TOMM20 antibody

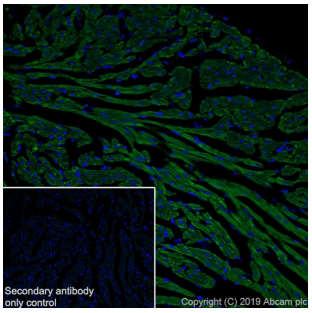
Immunohistochemical analysis of paraffin-embedded mouse cardiac muscle tissue labeling TOMM20 with ab186735 at 1/100 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Frozen sections) - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunohistochemistry (Frozen sections) staining using rabbit Anti-TOMM20 antibody

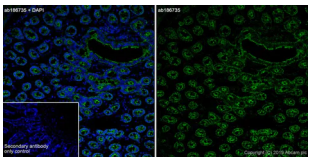
Immunohistochemistry (Frozen sections) analysis of rat small intestine tissue sections labeling TOMM20 with Purified ab186735 at 1/50 (1.9 µg/ml).Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. DAPI was used as a counterstain.



Immunohistochemistry (Frozen sections) - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunohistochemistry (Frozen sections) staining using rabbit Anti-TOMM20 antibody

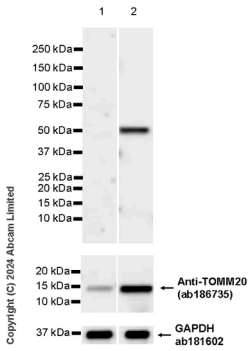
Immunohistochemistry (Frozen sections) analysis of mouse cardiac muscle tissue sections labeling TOMM20 with Purified ab186735 at 1/50 (1.9 µg/ml).Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. DAPI was used as a counterstain.



Immunohistochemistry (Frozen sections) - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Immunohistochemistry (Frozen sections) staining using rabbit Anti-TOMM20 antibody

Immunohistochemistry (Frozen sections) analysis of mouse small intestine tissue sections labeling TOMM20 with Purified ab186735 at 1/50 (1.9 µg/ml).Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. DAPI was used as a counterstain.



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

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

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-TOMM20 (ab186735) staining at 1/1000 dilution.

All lanes:
Western blot - Anti-NDUFV1 antibody [EPR29179-78] (ab321893) at 1/1000 dilution

Lane 1:
HeLa (human cervical adenocarcinoma epithelial cell) cytoplasmic fraction at 20 µg

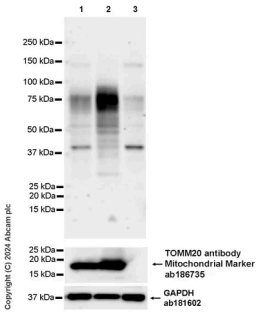
Lane 2:
HeLa mitochondrial fraction at 20 µg

Secondary

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

Observed band size: 36 kDa, 16 kDa, 51 kDa

Exposure time: 26s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

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

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 33560415; PMID: 37527038).

Samples are non-boiled as boiling may cause protein aggregation.

The identity of the lower MW band at approximately 40 kDa in lane 1 and lane 3 is unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-SLC15A4/PHT1 antibody [EPR26040-123] (ab324433) at 1/1000 dilution

Lane 1:
293T (human embryonic kidney epithelial cell) whole lysate at 40 µg

Lane 2:
293T mitochondrial fraction at 40 µg

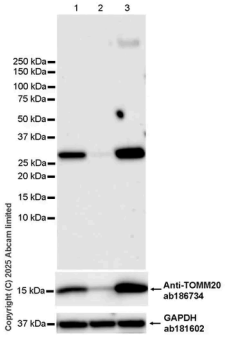
Lane 3:
293T non-mitochondrial fraction at 40 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 50-100 kDa, 36 kDa, 16 kDa

Exposure time: 136s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

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

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-Adenine Nucleotide Translocator 2/ANT 2 antibody [EPR29813-534] (ab325120) at 1/1000 dilution

Lane 1:
HeLa (human cervical adenocarcinoma epithelial cell) whole lysate at 20 µg

Lane 2:
HeLa non-mitochondrial fraction at 20 µg

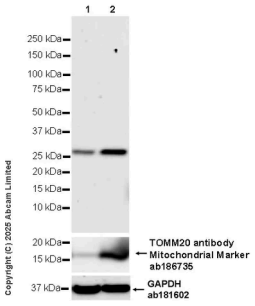
Lane 3:
HeLa mitochondrial fraction at 20 µg

Secondary

All lanes:
Western blot at 1/100000 dilution

Observed band size: 32 kDa, 36 kDa, 16 kDa

Exposure time: 125s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining of HepG2 mitochondria fraction using rabbit Anti-TOMM20 antibody

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

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa); Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)(1:1000) ((~16KDa)).

All lanes:
Western blot - Anti-AGMAT antibody [EPR30229-20] (ab325541) at 1/1000 dilution

Lane 1:
HepG2 (human hepatocellular carcinoma epithelial cell) non-mitochondrial fraction at 20 µg

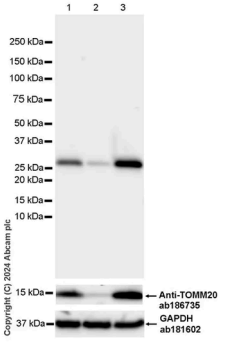
Lane 2:
HepG2 mitochondria fraction at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 30 kDa, 36 kDa, 16 kDa

Exposure time: 136s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) staining at 1/1000 dilution.

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

All lanes:
Western blot - Anti-Slc25a1 antibody [EPR29193-92] (ab318201) at 1/1000 dilution

Lane 1:
HeLa (human cervical adenocarcinoma epithelial cell) whole lysate at 20 µg

Lane 2:

HeLa non-mitochondrial fraction at 20 µg

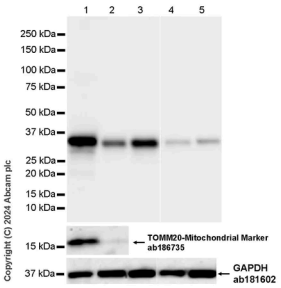
Lane 3:
HeLa mitochondrial fraction at 20 µg

Secondary

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

Observed band size: 34 kDa, 36 kDa, 15 kDa

Exposure time: 15s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

Low expression: lung, intestine (PMID: 20861021).

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 20861021).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) staining at 1/2000 dilution.

All lanes:
Western blot - Anti-MARC1 antibody [EPR28272-93] (ab317262) at 1/1000 dilution

Lane 1:
Human liver mitochondria fraction at 20 µg

Lane 2:
Human liver non-mitochondrial fraction at 20 µg

Lane 3:
Human liver tissue lysate at 20 µg

Lane 4:
Human lung tissue lysate at 20 µg

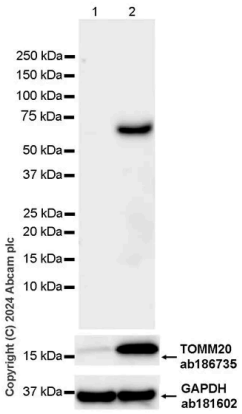
Lane 5:
Human small intestine tissue lysate at 20 µg

Secondary

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

Observed band size: 36 kDa, 16 kDa

Exposure time: 3s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) staining at 1/2000 dilution.

All lanes:
Western blot - Anti-ATAD3A antibody [EPR27484-26] (ab317252) at 1/1000 dilution

Lane 1:
HeLa (human cervix adenocarcinoma epithelial cell) non-mitochondrial fraction at 20 µg

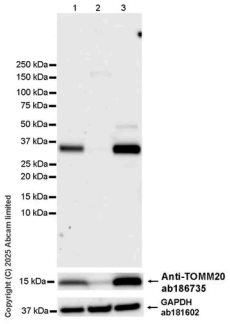
Lane 2:
HeLa mitochondria fraction at 20 µg

Secondary

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

Observed band size: 66 kDa, 36 kDa, 16 kDa

Exposure time: 180s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

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

The samples are unboiled.

In Western blot, Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) staining at 1/1000 dilution.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-MT-ND4 antibody [EPR28273-38] (ab324743) at 1/1000 dilution

Lane 1:
HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
HepG2 non-mitochondrial fraction at 20 µg

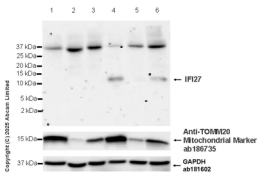
Lane 3:
HepG2 mitochondrial fraction at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 35 kDa, 36 kDa, 16 kDa

Exposure time: 70s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

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

The identity of the higher MW band at around 37 kDa is unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-IFI27 antibody [EPR27275-176] (ab323852) at 1/1000 dilution

Lane 1:
Untreated MCF7 (human breast adenocarcinoma epithelial cell) mitochondrial fraction at 60 µg

Lane 2:
Untreated MCF7 non-mitochondrial fraction at 60 µg

Lane 3:
Untreated MCF7 whole cell lysate at 60 µg

Lane 4:
MCF7 treated with 100U/ml IFN alpha 1 for 24 hours, mitochondrial fraction at 60 µg

Lane 5:
MCF7 treated with 100U/ml IFN alpha 1 for 24 hours, non-mitochondrial fraction at 60 µg

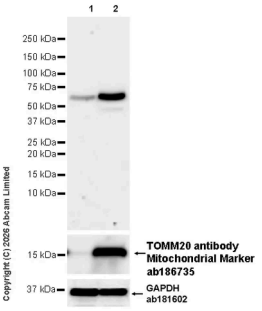
Lane 6:
MCF7 treated with 100U/ml IFN alpha 1 for 24 hours whole cell lysate at 60 µg

Secondary

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

Observed band size: 12 kDa, 36 kDa, 15 kDa

Exposure time: 180s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining of HCT 116 mitochondrial fraction using rabbit Anti-TOMM20 antibody

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

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 28223357; PMID: 26977393)

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa); Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) (1:1000) (16KDa).
All lanes:
Western blot - Anti-ACSL5 antibody [EPR30222-556] (ab327086) at 1/1000 dilution

Lane 1:
HCT 116 (human colorectal carcinoma epithelial cell) non-mitochondrial fraction at 20 µg

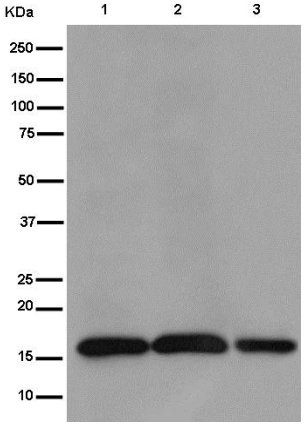
Lane 2:
HCT 116 mitochondrial fraction at 20 µg

Secondary

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

Observed band size: 70 kDa, 36 kDa, 16 kDa

Exposure time: 180s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

All lanes:
Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) at 1/10000 dilution

Lane 1:
HepG2 (human liver hepatocellular carcinoma cell line) cell lysate at 20 µg

Lane 2:
HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate at 20 µg

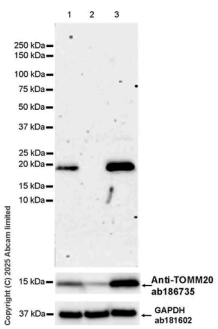
Lane 3:
SH-SY5Y (human neuroblastoma cell line from bone marrow) cell lysate at 20 µg

Secondary

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

Predicted band size: 16 kDa

Observed band size: 16 kDa



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

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

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-TIMM23/TIM23 antibody [EPR29827-44] (ab324870) at 1/1000 dilution

Lane 1:
HeLa (human cervical adenocarcinoma epithelial cell) whole lysate at 20 µg

Lane 2:
HeLa non-mitochondrial fraction at 20 µg

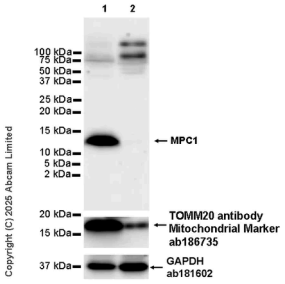
Lane 3:
HeLa mitochondrial fraction at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 19 kDa, 36 kDa, 15 kDa

Exposure time: 180s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

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

The identity of the higher MW bands above 75 kDa are unknow.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-MPC1 antibody [EPR29172-82] (ab324682) at 1/1000 dilution

Lane 1:
293T mitochondrial fraction at 20 µg

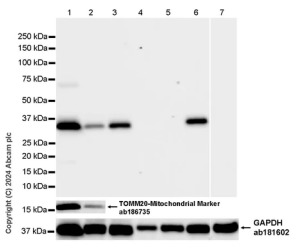
Lane 2:
293T non-mitochondrial fraction at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 12 kDa, 16 kDa, 36 kDa

Exposure time: 26s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining using rabbit Anti-TOMM20 antibody

Low expression: lung, heart (PMID: 20861021).

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 20861021).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735) staining at 1/2000 dilution.
All lanes:
Western blot - Anti-MARC1 antibody [EPR28272-93] (ab317262) at 1/1000 dilution

Lane 1:
Mouse liver mitochondria fraction at 20 µg

Lane 2:
Mouse liver non-mitochondrial fraction at 20 µg

Lane 3:
Mouse liver tissue lysate at 20 µg

Lane 4:
Mouse lung tissue lysate at 20 µg

Lane 5:
Mouse heart tissue lysate at 20 µg

Lane 6:
Rat liver tissue lysate at 20 µg

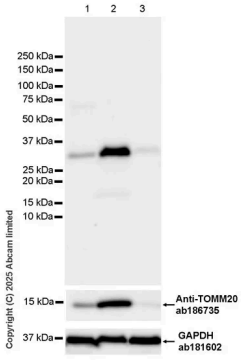
Lane 7:
Rat heart tissue lysate at 20 µg

Secondary

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

Observed band size: 36 kDa, 16 kDa

Exposure time: 15s



Western blot - Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)

TOMM20 Western blot staining of F9 mitochondrial fraction using rabbit Anti-TOMM20 antibody

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

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa);Anti-TOMM20 antibody [EPR15581-54] - Mitochondrial Marker (ab186735)(1:1000)(16KDa).

All lanes:
Western blot - Anti-UCP2 antibody [EPR30577-749] (ab325426) at 1/1000 dilution

Lane 1:
F9 (mouse embryonal carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
F9 mitochondrial fraction at 20 µg

Lane 3:
F9 non-mitochondrial fraction at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 33 kDa, 36 kDa, 16 kDa

Exposure time: 15s

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