abcam

ab185543

Anti-TOMM40 antibody [EPR6932(2)]

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	EPR6932(2)
Purification technique	Affinity purification Protein A
Concentration	1.555 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30 - 1/50
Notes	-

WB

Tested

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

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/300
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

IHC-P

Tested

Species	Human
Dilution info	1/500
Notes	-

Target data

See full target information TOMM40

Function	Channel-forming protein that forms part of the translocase of the outer mitochondrial membrane (TOM) complex essential for the recognition and translocation of cytosolically synthesized mitochondrial preproteins

(PubMed:15644312, PubMed:31206022, PubMed:40080546). 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). Plays a role in the assembly of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) by forming a complex with BCAP31 and mediating the translocation of Complex I components from the cytosol to the mitochondria (PubMed:31206022).

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

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

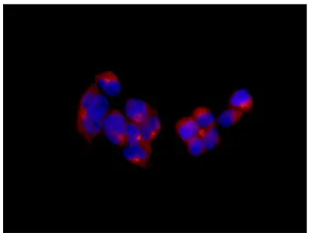
We do not recommend this combination. It is not covered by our product promise.

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.

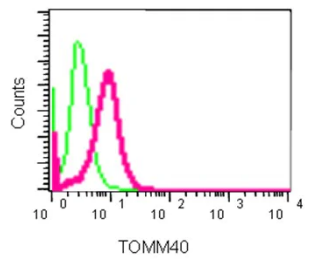
6 product images



Immunocytochemistry/ Immunofluorescence - Anti-TOMM40 antibody [EPR6932(2)] (ab185543)

TOMM40 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TOMM40 antibody

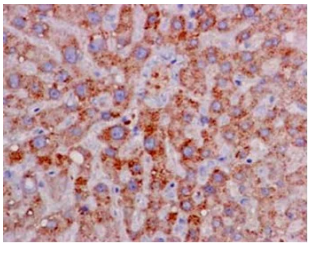
Immunofluorescent analysis of 4% paraformaldehyde fixed 293T cells labeling TOMM40 with ab185543 at 1/100 dilution. Secondary antibody Goat anti rabbit IgG (Alexa Fluor®555) at a 1/200 dilution. Counterstained with Dapi blue.



Flow Cytometry (Intracellular) - Anti-TOMM40 antibody [EPR6932(2)] (ab185543)

TOMM40 Flow Cytometry (Intracellular) staining using rabbit Anti-TOMM40 antibody

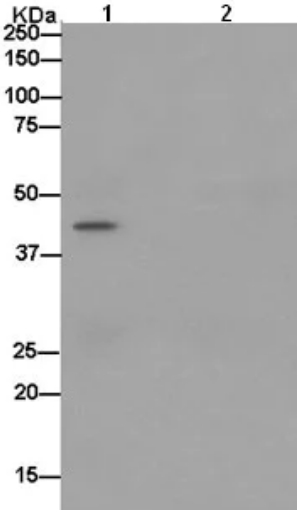
Intracellular Flow Cytometry analysis of 2% paraformaldehyde fixed HeLa cells labeling TOMM40 with ab185543 at 1/300 dilution (pink) or a rabbit IgG isotype control (green), followed by secondary Goat anti rabbit IgG (FITC) at 1/150 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TOMM40 antibody [EPR6932(2)] (ab185543)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling TOMM40 with ab185543 at 1/500 dilution. Counter stain Hematoxylin.

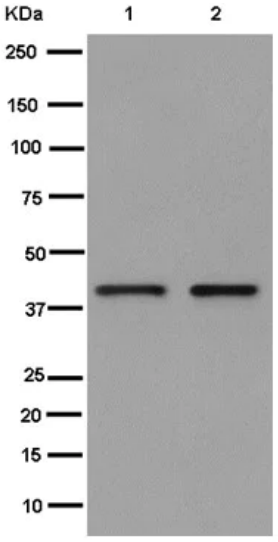
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-TOMM40 antibody [EPR6932(2)] (ab185543)

Western blot analysis of TOMM40 in immunoprecipitation pellets from HeLa lysate. ab185543 used at 1/50 dilution (Lane 1) or PBS (Lane 2). Secondary antibody Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at a1/1000 dilution.
All lanes:
Immunoprecipitation - Anti-TOMM40 antibody [EPR6932(2)] (ab185543)

Predicted band size: 38 kDa



Western blot - Anti-TOMM40 antibody [EPR6932(2)] (ab185543)

All lanes:
Western blot - Anti-TOMM40 antibody [EPR6932(2)] (ab185543) at 1/10000 dilution

Lane 1:
HeLa cell lysate at 20 µg

Lane 2:
293T cell lysate at 20 µg

Secondary

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

Predicted band size: 38 kDa

Observed band size: 38 kDa

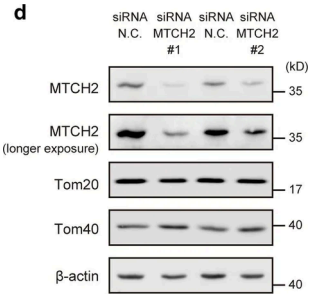


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Western blot - Anti-TOMM40 antibody [EPR6932(2)] (ab185543)

TOMM40 western blot using anti-TOMM40 antibody [EPR6932(2)] ab185543. Publication image and figure legend from Yuan, Q., Yang, W., et al., 2021, Mol Med, PubMed 33509092.

ab185543 was used in this publication in western blot. This may not be the same as the application(s) guaranteed by Abcam. For a full list of applications guaranteed by Abcam for ab185543 please see the product overview.

High expression of MTCH2 in glioma cells may increase mitochondrial OXPHOs. a, b Western blots and quantifications showing the enriched expression of MTCH2 in glioma cells compared to primary neurons and astrocytes. c qPCR results showing the decreased mRNA level of MTCH2 in A172 cells by siRNA-mediated knockdown (N = 3). d, e Western blots and quantifications showing the decreased protein level of MTCH2 in A172 cells by siRNA-mediated knockdown. Noted that other mitochondrial outer membrane proteins Tom20 and Tom40 were not affected by MTCH2

knockdown. f Immunostaining images showing the mitochondrial localization of MTCH2 in A172 cells. Noted that MTCH2 signals were dramatically decreased by siRNA-mediated knockdown. Scale bar, 10 μm. g Western blots showing the increased mitochondrial respiratory proteins and 4-HNE levels by MTCH2 knockdown in A172 cells

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