abcam

ab179826

Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal

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, 50% Tissue culture supernatant, 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	EPR13505
Purity	Tissue culture supernatant

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/5000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information TOMM22

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 the peripheral receptor TOMM20, functions as the transit peptide receptor

and facilitates the movement of preproteins into the translocation pore (PubMed:10982837). 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

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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

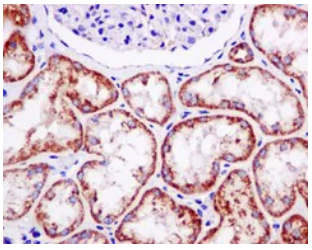
We do not recommend this combination. It is not covered by our product promise.

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.

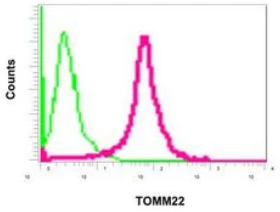
6 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal (ab179826)

TOMM22/TOM22 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TOMM22/TOM22 antibody

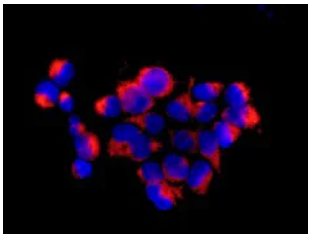
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling TOMM22/TOM22 with ab179826 at 1/1000 dilution.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal (ab179826)

TOMM22/TOM22 Flow Cytometry (Intracellular) staining using rabbit Anti-TOMM22/TOM22 antibody

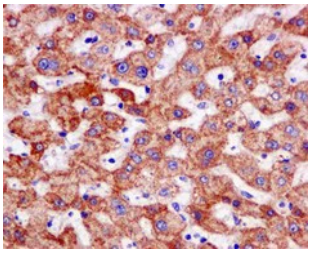
Intracellular flow cytometric analysis of 293T cells labeling TOMM22/TOM22 with ab179826 at 1/10 (red) or a rabbit IgG (negative) (green).



Immunocytochemistry/ Immunofluorescence - Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal (ab179826)

TOMM22/TOM22 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TOMM22/TOM22 antibody

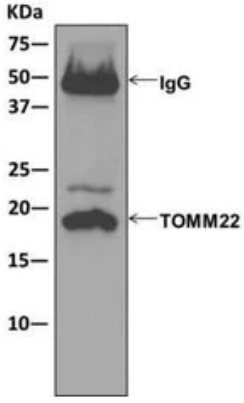
Immunofluorescent analysis of 293T cells labeling TOMM22/TOM22 with ab179826 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal (ab179826)

TOMM22/TOM22 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TOMM22/TOM22 antibody

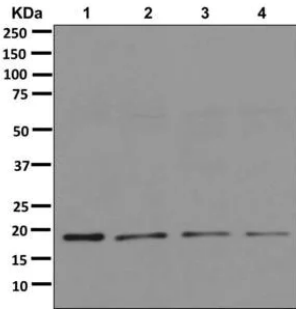
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling TOMM22/TOM22 with ab179826 at 1/1000 dilution.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal (ab179826)

Western blot analysis on immunoprecipitation pellet from Raji cell lysate using ab179826 at 1/10 dilution for IP.
All lanes:
Immunoprecipitation - Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal (ab179826)

Predicted band size: 15 kDa



Western blot - Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal (ab179826)

All lanes:
Western blot - Anti-TOMM22/TOM22 antibody [EPR13505] - N-terminal (ab179826) at 1/1000 dilution

Lane 1:
Raji cell lysate at 10 µg

Lane 2:
HeLa cell lysate at 10 µg

Lane 3:
K562 cell lysate at 10 µg

Lane 4:
293T cell lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 15 kDa

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