abcam

ab185545

Anti-TMEM192 antibody [EPR14330]

Recombinant | RabMAb

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	EPR14330
Purification technique	Affinity purification Protein A
Concentration	1.25 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

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

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/240
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information TMEM192

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	TMEM192 also known as Transmembrane Protein 192 has a molecular weight of approximately 25 kDa. It is a lysosomal membrane protein expressed in various tissues including the spleen and thymus. This protein predominantly localizes to the lysosomal compartment where it plays a role in maintaining lysosomal integrity. Researchers often study TMEM192 for its role in membrane stabilization and its interaction with other lysosomal proteins.
Biological function summary	TMEM192 participates in the regulation of lysosomal functions. It integrates into the lysosomal membrane and contributes to the stability and function of this organelle. While not commonly part of larger protein complexes it influences lysosomal enzymatic activities by stabilizing the lysosomal environment. Its role in

	regulating pH and transport processes within the lysosome directly affects how the cell processes cellular debris and macromolecules.
Pathways	TMEM192 interacts with cellular processes related to lysosomal biogenesis and autophagy. It functions closely with lysosomal-associated membrane protein 1 (LAMP1) within the lysosomal pathway which plays a critical role in the degradation and recycling of cellular components. The lysosomal pathway where TMEM192 operates is significant for maintaining cellular homeostasis by regulating autophagic activity and responding to nutrient availability.
Associated diseases and disorders	Disruptions in TMEM192 function associate with lysosomal storage disorders. Altered expression or mutations in TMEM192 link to Niemann-Pick disease type C which involves the accumulation of lipids within lysosomes. LAMP1 a protein associated with TMEM192 also plays a part in this disease pathway contributing to understanding the mechanism of lysosomal dysregulation in Niemann-Pick and similar disorders.

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

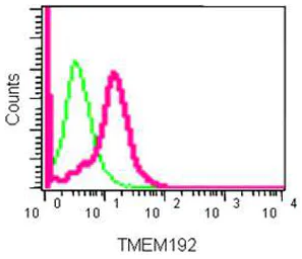
We do not recommend this combination. It is not covered by our product promise.

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.

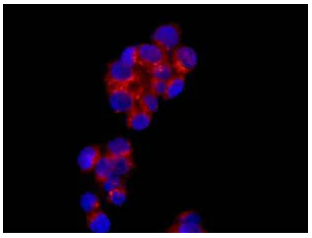
4 product images



Flow Cytometry (Intracellular) - Anti-TMEM192 antibody [EPR14330] (ab185545)

TMEM192 Flow Cytometry (Intracellular) staining using rabbit Anti-TMEM192 antibody

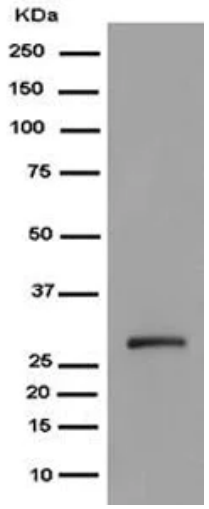
Intracellular Flow Cytometry analysis using ab185545 at 1/240 dilution onU87-MG cells. Secondary ab: Goat anti rabbit IgG (FITC) at 1/250 dilution. Fixative: 2% paraformaldehyde. Isotype control: Rabbit monoclonal IgG.



Immunocytochemistry/ Immunofluorescence - Anti-TMEM192 antibody [EPR14330] (ab185545)

TMEM192 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TMEM192 antibody

Immunofluorescence analysis of HepG2 cells labeling TMEM192 with ab185545 at 1/100 dilution. Secondary ab: Goat anti rabbit IgG (Alexa Fluor® 555) at 1/200 dilution. Fixative: 4% paraformaldehyde. Counter stain: Dapi.



Western blot - Anti-TMEM192 antibody [EPR14330] (ab185545)

TMEM192 Western blot staining of U87-MG cell lysate using rabbit Anti-TMEM192 antibody

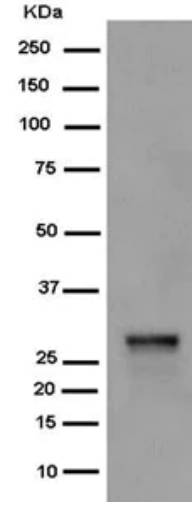
Blocking buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-TMEM192 antibody [EPR14330] (ab185545) at 1/10000 dilution

All lanes:
U87-MG cell lysate at 20 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 31 kDa



Western blot - Anti-TMEM192 antibody [EPR14330] (ab185545)

Blocking buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-TMEM192 antibody [EPR14330] (ab185545) at 1/2000 dilution

All lanes:
Human fetal liver lysate at 20 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 31 kDa

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