abcam

Product datasheet

Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free ab232589

Recombinant RabMAb

4 References 9 Images

Overview

Product name	Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free
Description	Rabbit monoclonal [EPR15581-54] to TOMM20 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, Flow Cyt (Intra), IHC-Fr
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HepG2, HeLa, SH-SY5Y, PC-12 and NIH 3T3 cell lysates; IHC-P: Human ovarian carcinoma and mouse cardiac muscle tissues; ICC/IF: HeLa cells; Flow Cyt (intra): HeLa cells; IHC-Fr: Mouse cardiac and small intestine tissues.
General notes	ab232589 is the carrier-free version of **ab186735**. 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	EPR15581-54
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232589 in the following tested applications.

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

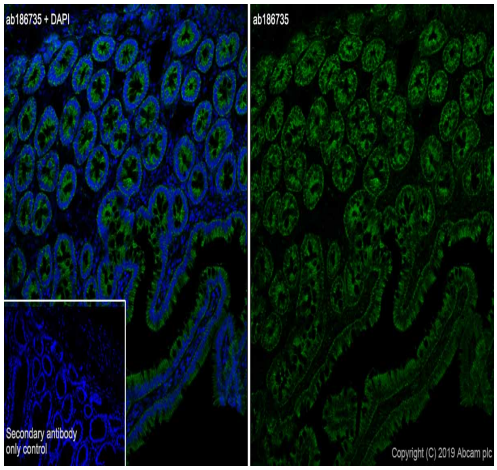
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 16 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

Target

Function	Central component of the receptor complex responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with TOM22 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.
Sequence similarities	Belongs to the Tom20 family.
Cellular localization	Mitochondrion outer membrane.

Images

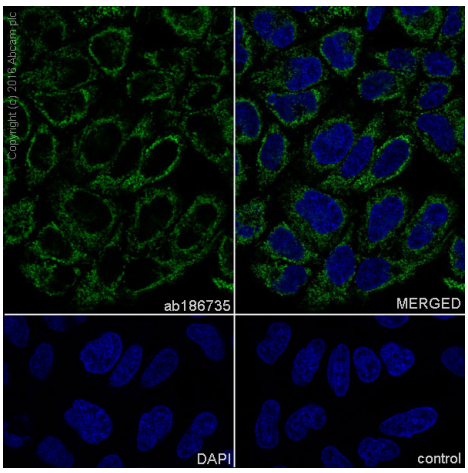
Images



Immunohistochemistry (Frozen sections) - Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free (ab232589)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186735**).

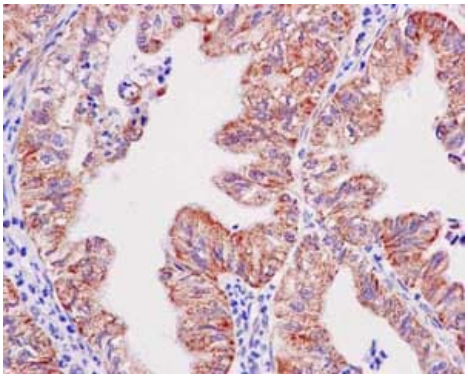


Immunocytochemistry/ Immunofluorescence - Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free (ab232589)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186735**).

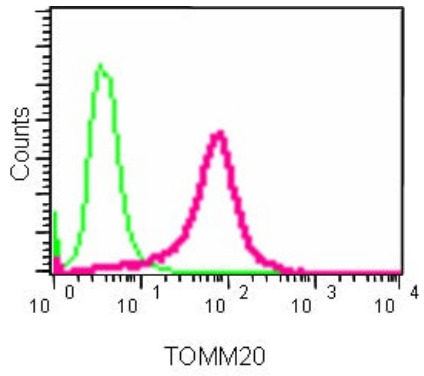


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free (ab232589)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186735**).

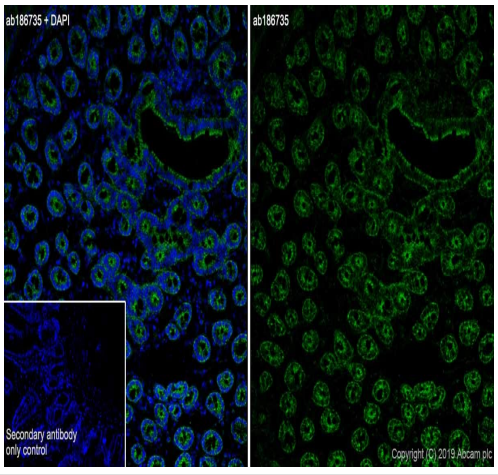
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free (ab232589)

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).

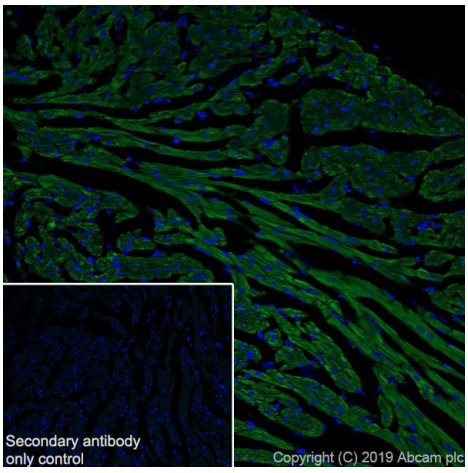
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186735**).



Immunohistochemistry (Frozen sections) - Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free (ab232589)

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.

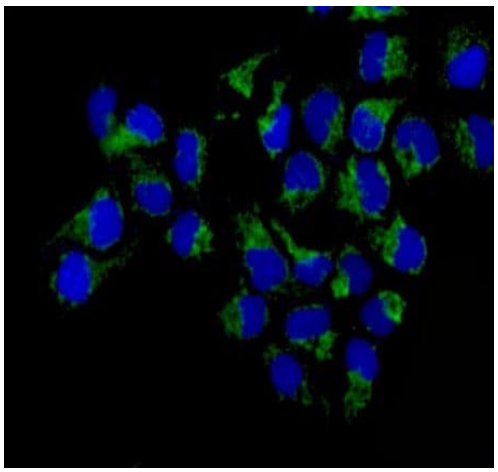
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186735**).



Immunohistochemistry (Frozen sections) - Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free (ab232589)

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.

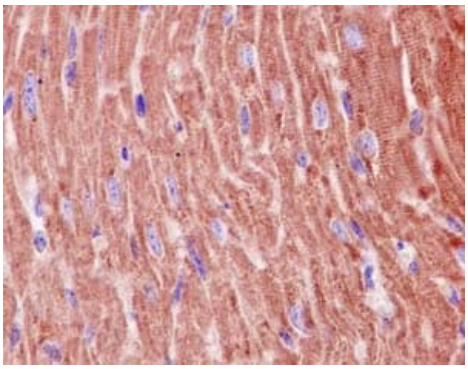
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186735**).



Immunocytochemistry/ Immunofluorescence - Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free (ab232589)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186735**).

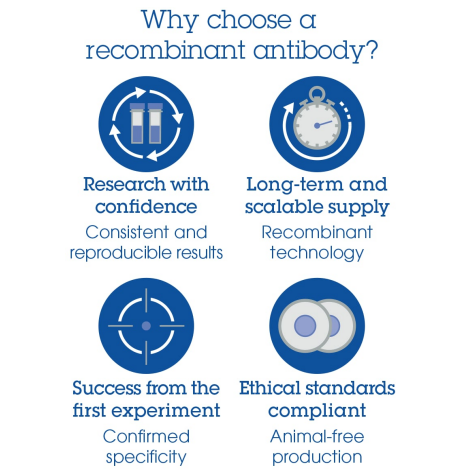


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TOMM20 antibody [EPR15581-54] - BSA and Azide free (ab232589)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab186735**).

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



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