

# Anti-TMEM119 antibody [106-6] - BSA and Azide free ab220249

**KO VALIDATED** Recombinant RabMAB

[1 Abreviews](#) [1 References](#) [6 Images](#)

### Overview

<b>Product name</b>	Anti-TMEM119 antibody [106-6] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [106-6] to TMEM119 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	Human reactivity has not been tested.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt <b>Unsuitable for:</b> IHC-Fr or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Flow Cytometry: Acutely isolated primary mouse microglia (P60 BL6 mouse; wildtype CD11b+CD45lo brain cells).
<b>General notes</b>	<p>ab220249 is the carrier-free version of <a href="#">ab210405</a>.</p> <p>Please note that the original Bennett et al . (2016) publication (PubMed: 26884166), used a combination of clones 106-6 and 85-5. With the author's permission, the decision was made to add the recombinant version of only a single clone (106-6) to the catalogue as it performed equally well on its own.</p> <p>Our <b>carrier-free</b> 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.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li></ul>

- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	106-6
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab220249 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
Flow Cyt		Use a concentration of 0.1 - 0.5 µg/ml. For detailed protocol of microglia extraction from mouse brain, spinal cord or retina, please refer to PMID 26884166 and PMID 28963474

**Application notes** Is unsuitable for IHC-Fr or IHC-P.

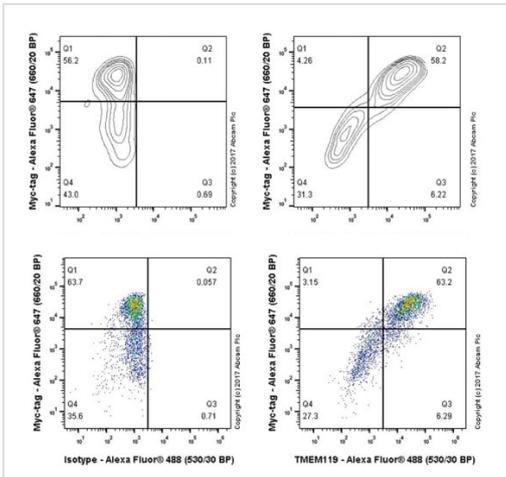
## Target

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**Cellular localization** Membrane; Single-pass type I membrane protein

## Images

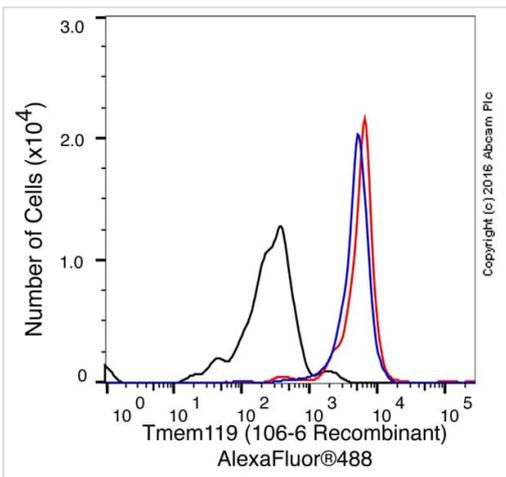
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Flow Cytometry - Anti-TMEM119 antibody [106-6] - BSA and Azide free (ab220249)

Flow cytometry analysis of HEK-293T (human embryonic kidney) transfected with Myc-His tagged TMEM119 expression vector labeling TMEM119 with **ab210405** at 1/2000 dilution (0.1 µg/mL) (right) compared with isotype control rabbit monoclonal IgG **ab172730** (Left). Cells were surface-stained with **ab210405**, then fixed with 2% PFA for 10 minutes and permeabilised with 0.1% Tween-20 for 30 minutes. Next, they were stained with Alexa Fluor® 647 conjugated Myc-tag antibody and Alexa Fluor® 488 conjugated secondary antibody. Only Myc-tag (+) population showed TMEM119 positive staining.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab210405**).



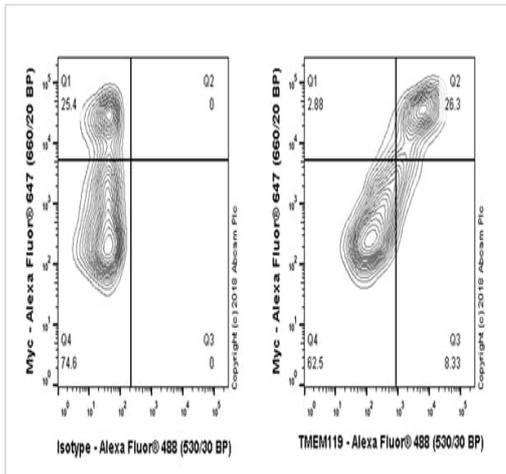
Flow Cytometry - Anti-TMEM119 antibody [106-6] - BSA and Azide free (ab220249)

Flow cytometric analysis of acutely isolated primary mouse microglia (P60 BL6 mouse; wildtype CD11b+CD45lo brain cells) cells labeling TMEM119 with **ab210405** at 0.5 µg/mL (red) and 0.1 µg/mL (blue), compared with TMEM119 KO primary mouse brain cells (black) stained with **ab210405** at 0.5 µg/mL. Goat anti-Rabbit IgG (Alexa Fluor®488) at 1/500 dilution was used as the secondary antibody.

No signal was detected on the surface of CD11b+CD45lo brain cells from TMEM119 KO mouse (black) stained with **ab210405**; whereas in wildtype CD11b+CD45lo brain cells, cell surface staining was observed (red 0.5 µg/mL; blue 0.1 µg/mL).

The data was provided by Ben Barres' lab (Stanford University).

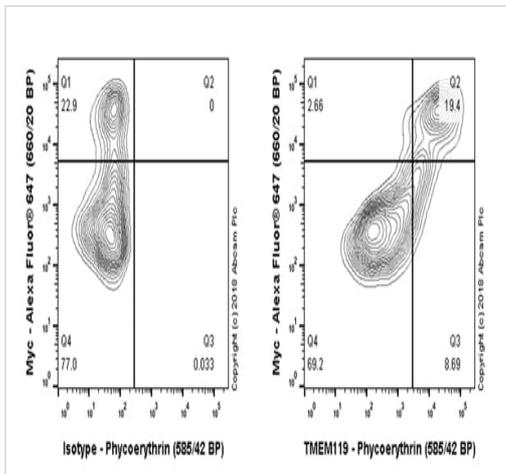
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab210405**).



Flow Cytometry - Anti-TMEM119 antibody [106-6] - BSA and Azide free (ab220249)

Clone 106-6 (ab220249) has been successfully conjugated by Abcam. This image was generated using Anti-TMEM119 antibody [106-6] (Alexa Fluor® 488). Please refer to [ab225497](#) for protocol details.

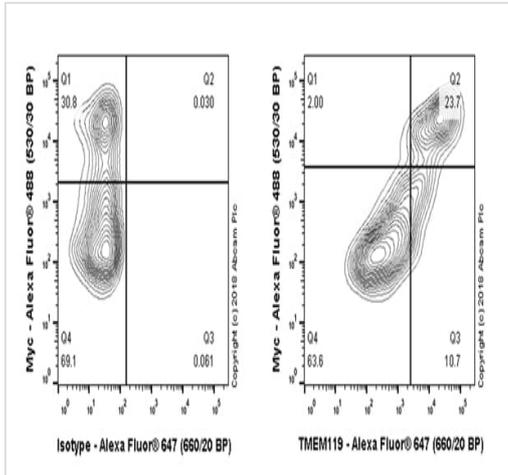
Flow cytometry analysis of HEK-293T (human embryonic kidney) transfected with Myc-His tagged TMEM119 expression vector labelling TMEM119 with [ab225497](#) at 1/500 dilution (right) compared with Rabbit IgG (monoclonal) Alexa Fluor® 488 [ab199091](#) (left). Cells were surface-stained with [ab225497](#), then fixed with 2% PFA for 10 minutes and permeabilised with 0.1% Tween-20 for 30 minutes. Next, they were stained with Alexa Fluor® 647 conjugated Myc-tag. Only Myc-tag (+) population showed TMEM119 positive staining.



Flow Cytometry - Anti-TMEM119 antibody [106-6] - BSA and Azide free (ab220249)

Clone 106-6 (ab220249) has been successfully conjugated by Abcam. This image was generated using Anti-TMEM119 antibody [106-6] (PE). Please refer to [ab225496](#) for protocol details.

Flow cytometry analysis of HEK-293T (human embryonic kidney) transfected with Myc-His tagged TMEM119 expression vector labelling TMEM119 with [ab225496](#) at 1/500 dilution (right) compared with Rabbit IgG (monoclonal) Phycoerythrin [ab209478](#) (left). Cells were surface-stained with [ab225496](#), then fixed with 2% PFA for 10 minutes and permeabilised with 0.1% Tween-20 for 30 minutes. Next, they were stained with Alexa Fluor® 647 conjugated Myc-tag. Only Myc-tag (+) population showed TMEM119 positive staining.



Flow Cytometry - Anti-TMEM119 antibody [106-6] - BSA and Azide free (ab220249)

Clone 106-6 (ab220249) has been successfully conjugated by Abcam. This image was generated using Anti-TMEM119 antibody [106-6] (Alexa Fluor® 647). Please refer to [ab225494](#) for protocol details.

Flow cytometry analysis of HEK-293T (human embryonic kidney) transfected with Myc-His tagged TMEM119 expression vector labelling TMEM119 with [ab225494](#) at 1/500 dilution (right) compared with Rabbit IgG (monoclonal) Alexa Fluor® 647 [ab199093](#) (left). Cells were surface-stained with [ab225494](#), then fixed with 2% PFA for 10 minutes and permeabilised with 0.1% Tween-20 for 30 minutes. Next, they were stained with Alexa Fluor® 488 conjugated Myc-tag. Only Myc-tag (+) population showed TMEM119 positive staining.

Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

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