

Product datasheet

Anti-TMEM119 antibody [106-6] - Microglial marker ab210405

KO VALIDATED Recombinant RabMAb[®]

★★★★☆ 7 Abreviews 16 References 3 Images

Overview

Product name	Anti-TMEM119 antibody [106-6] - Microglial marker
Description	Rabbit monoclonal [106-6] to TMEM119 - Microglial marker
Host species	Rabbit
Specificity	Human reactivity has not been tested.
Tested applications	Suitable for: Flow Cyt Unsuitable for: IHC-Fr or IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cytometry: Acutely isolated primary mouse microglia (P60 BL6 mouse; wildtype CD11b+CD45lo brain cells), HEK-293T transfected with Myc-His tagged mouse TMEM119.
General notes	<p>Please note, this antibody is suitable for flow cytometry. For IHC on mouse brain tissue we recommend ab209064.</p> <p>Please note that the original Bennett <i>et al.</i> (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>The 106-6 clone to mouse Tmem119 is exclusively manufactured and sold by Abcam.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	106-6
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab210405 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

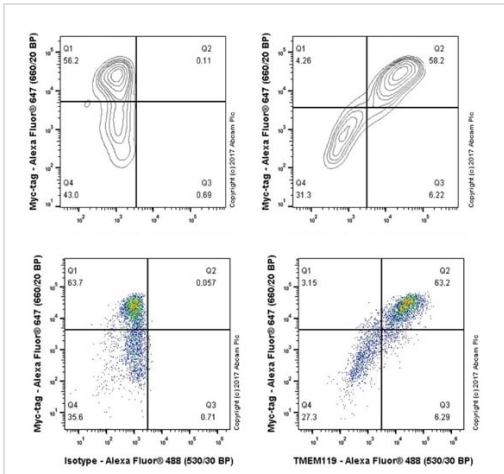
Application	Abreviews	Notes
Flow Cyt	★★★★☆ (2)	Use a concentration of 0.1 - 0.5 µg/ml. For detailed protocol of microglia extraction from mouse brain, spinal cord or retina, please refer to PMID 26884166 and PMID 28963474

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

Target

Cellular localization Membrane; Single-pass type I membrane protein

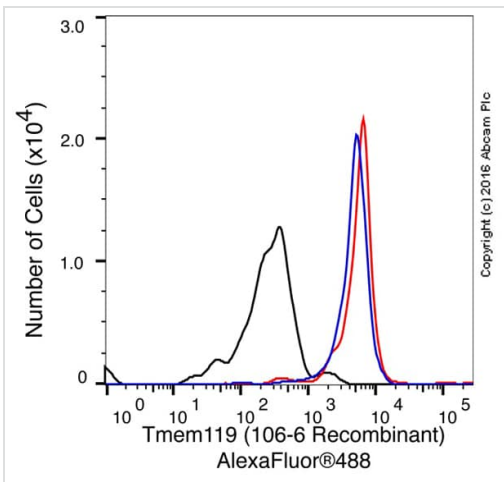
Images



Flow Cytometry - Anti-TMEM119 antibody [106-6] - Microglial marker (ab210405)

Flow cytometry analysis of HEK-293T (human embryonic kidney) transfected with Myc-His tagged mouse TMEM119 expression vector labeling TMEM119 with ab210405 at 1/2000 dilution (0.1µg/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.

Alexa Fluor® 488 (**ab225497**) and R-PE (**ab225496**) conjugated versions are available for this clone.



Flow Cytometry - Anti-TMEM119 antibody [106-6] - Microglial marker (ab210405)

Flow cytometric analysis of acutely isolated primary mouse microglia (P60 BL6 mouse; wildtype CD11b+CD45lo brain cells) cells labeling TMEM119 with ab210405 at 0.5µg/mL (red) and 0.1µg/mL (blue), compared with TMEM119 KO primary mouse brain cells (black) stained with ab210405 at 0.5µg/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 0.5ug/mL; blue 0.1ug/mL).

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

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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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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