

## Product Datasheet

## Anti-TMEM119 Antibody FL594 Conjugate



## Overview

<b>Catalog #</b>	75-512-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	L128/43
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Mouse
<b>Immunogen</b>	Fusion protein amino acids 113-280 (cytoplasmic C-terminus) of mouse Tmem119
<b>Molecular Weight</b>	30 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-512-FL594, RRID: AB_2940702

## Details

<b>Target Description</b>	TMEM119, is a plasma membrane protein first identified because of its role in the differentiation of osteoblasts (Kanamoto et al., 2009). However TMEM119 is also known to be a specific marker of microglia, the tissue-resident macrophages of brain and spinal cord (Bennett et al., 2016). Unlike other microglia markers, TMEM119 expression readily distinguishes resident microglia from blood-derived macrophages, making it a highly specific microglia marker. In healthy brain microglia are the resident immune cells where they act to neutralize pathogens, clear dead and dying cells, and prune synaptic connections. However, in neurodegenerative disease microglia can actually promote neuronal degeneration through reduced phagocytic clearance and increased pro-inflammatory effects. Our anti-TMEM119 antibody is a highly specific microglial marker for mouse TMEM119 and works by western blot and immunocytochemistry.
<b>Specificity</b>	No cross-reactivity reported
<b>Purification Method</b>	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.

**Quality Control Tests**

Each new lot of this antibody is tested to confirm that it shows the expected staining pattern when used to stain COS cells overexpressing target.

**Storage**

Aliquot and store at  $\leq -20^{\circ}\text{C}$  for long term storage. For short term storage, store at  $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

**Our Guarantee**

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As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.

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