

Product Datasheet

Anti-TMEM119 Antibody FL490 Conjugate



Overview

Catalog #	75-512-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	L128/43
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Mouse
Immunogen	Fusion protein amino acids 113-280 (cytoplasmic C-terminus) of mouse Tmem119
Molecular Weight	30 kDa
Cite this Antibody	Antibodies Inc Cat# 75-512-FL490, RRID: AB_2940700

Details

Target Description	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.
Specificity	No cross-reactivity reported
Purification Method	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

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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