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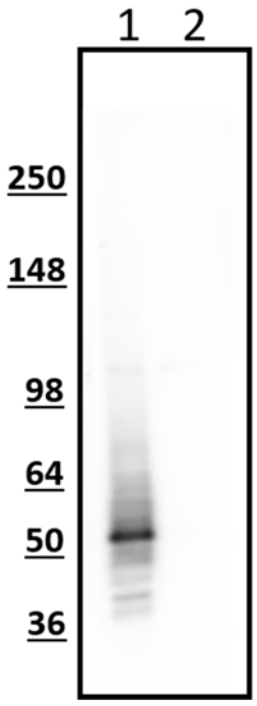
Product Datasheet

Anti-TMEM119, NeuroMab clone L128/43

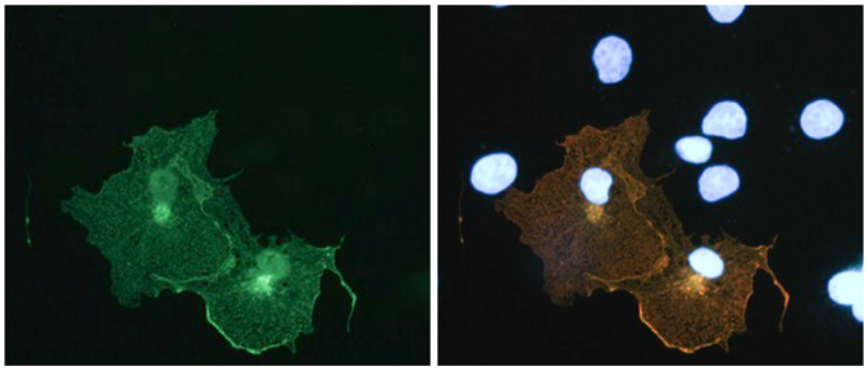
Overview

Catalog #	75-512
Isotype	IgG1
Clone Number	L128/43
Size	100 µl (75-512-100) or 20 µl (75-512-020)
Concentration	1.0 mg/mL
Host Species	Mouse
Clonality	Monoclonal
Format	Purified by Protein A chromatography
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.4
Applications	IHC, ICC, WB
Species Reactivity	Mouse
Immunogen	Fusion protein amino acids 113-280 (cytoplasmic C-terminus) of mouse Tmem119
Molecular Weight	~30 kD
Cite this Antibody	Anti-TMEM119, UC Davis/NeuroMab clone L128/43

Images



Western blot of COS7 cells transfected with TMEM119-myc-FLAG (lane 1), and mock-transfected (lane 2), using mouse α-TMEM119 antibody showing the expected staining for TMEM119 in lane 1 and no staining in untransfected cells



Immunofluorescence of TMEM119-FLAG transfected COS-7 cells using mouse α-TMEM119 (green) and rabbit α-flag tag (red). Yellow/orange staining shows 100% correspondence between the two antibodies for recognition of transfected cells. Blue staining is DAPI and stains nuclei of both transfected and untransfected cells.

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, immunocytochemistry, and immunohistochemistry.

Purification Method

Produced by in-vitro bioreactor culture of hybridoma lines followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody at 1 mg/mL.

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

Store at ≤ -20 C for long term storage. For short term storage, store at 2-8 C. For maximum recovery of product, centrifuge the vial prior to removing the cap.

Recent Citations

This highly-validated antibody is a newly-launched product. Be the first to cite usage of this product and receive a free antibody.*

Our Guarantee

As an original manufacturer, we are dedicated to creating high quality, 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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