Synaptic Systems

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TMEM 119

Cat.No. 400 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. For reconstitution add 50 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: not tested yet **IP**: not tested yet **ICC**: not tested yet **IHC**: 1 : 500 up to 1 : 1000 (see remarks) **IHC-P/FFPE**: 1 : 1000
Immunogen	Recombinant protein corresponding to AA 189 to 280 from mouse TMEM119 (UniProt Id: Q8R138)
Reactivity	Reacts with: mouse (Q8R138). Other species not tested yet.
Specificity	Specific for TMEM 119.
Remarks	**IHC**: The antibody produces some unspecific background in the cerebellum.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Microglia are resident myeloid cells of the central nervous system (CNS). They are ontogenetically and functionally distinct from monocyte-derived macrophages that infiltrate the CNS under pathological conditions. **T**rans**mem**brane protein **119** (**TMEM 119**) is a single-pass type I membrane protein that has been identified as a useful, highly selective microglia marker protein.

Selected General References

New tools for studying microglia in the mouse and human CNS.
Bennett ML, Bennett FC, Liddelow SA, Ajami B, Zamanian JL, Fernhoff NB, Mulinyawe SB, Bohlen CJ, Adil A, Tucker A, Weissman IL, et al.
Proceedings of the National Academy of Sciences of the United States of America (2016) 113(12): E1738-46.

TMEM119 marks a subset of microglia in the human brain.
Satoh J, Kino Y, Asahina N, Takitani M, Miyoshi J, Ishida T, Saito Y
Neuropathology : official journal of the Japanese Society of Neuropathology (2016) 36(1): 39-49.