For Research Use Only

TMEM119 Recombinant monoclonal antibody

Catalog Number:83448-9-RR

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
83448-9-RR

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG1823

GenBank Accession Number:
NM_181724

GeneID (NCBI):
338773

UNIPROT ID:
Q4V9L6

Full Name:
transmembrane protein 119

Calculated MW:
29 kDa

Purification Method:
Protein A purification

CloneNo.:
251557E2

Recommended Dilutions:
IHC: 1:500-1:2000
IF-P: 1:200-1:800

Applications

Tested Applications:
IHC, IF-P, ELISA

Species Specificity:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : Human brain cancer（Astrocitoma）, mouse brain tissue

IF-P : mouse brain tissue,

Background Information

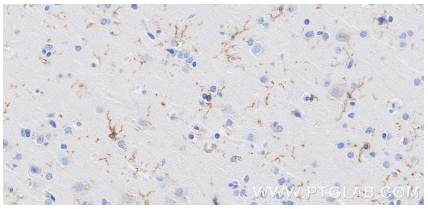
Transmembrane protein 119 (TMEM119), was characterized to be a specific microglia marker by Bennet et al. in 2016, although its function in microglia remains unknown. It is considered to be a marker expressed by microglia under homeostatic conditions based on transcriptomic findings . Under pathological conditions, the immune-specialized brain microenvironment contains both resident microglia and bone marrow-derived myeloid cells recruited from peripheral circulation. Recently, transmembrane protein 119 (TMEM119) has been reported as a marker for resident microglia which is not expressed by bone marrow-derived myeloid cells. (PMID: 35247551, PMID: 38308250, PMID: 40373772)

Storage

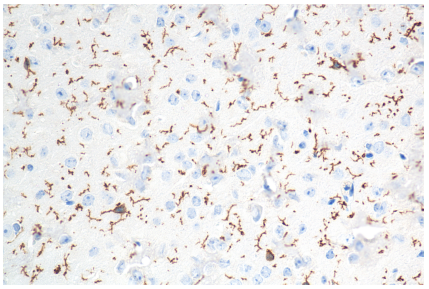
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

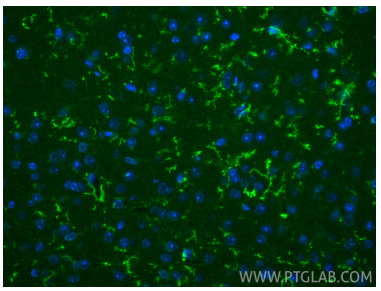
Selected Validation Data



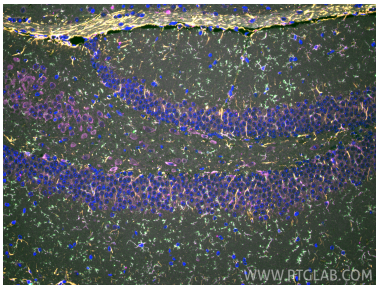
Immunohistochemical analysis of paraffin-embedded Human brain cancer(Astrocitoma) slide using 83448-9-RR (TMEM119 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



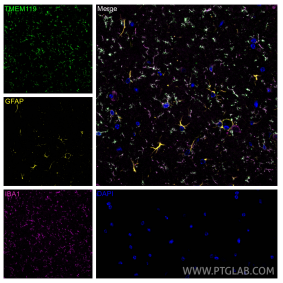
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83448-9-RR (TMEM119 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



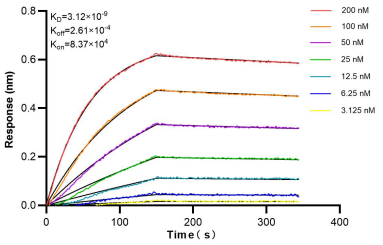
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TMEM119 antibody (83448-9-RR, Clone: 251557E2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TMEM119 antibody (83448-9-RR, Clone: 251557E2) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CoraLite® Plus 647 IBA1 antibody (CL647-81728, Clone: 4D5, Magenta), GFAP antibody (60190-1-Ig, Clone: 4B2E10, orange). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TMEM119 antibody (83448-9-RR, Clone: 251557E2) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CoraLite® Plus 647 IBA1 antibody (CL647-81728, Clone: 4D5, Magenta), GFAP antibody (60190-1-Ig, Clone: 4B2E10, orange). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83448-9-RR against Human TMEM119 were performed. The affinity constant is 3.12 nM.