

TMEM119 Recombinant monoclonal antibody

Catalog Number: 83448-9-RR

Basic Information

Catalog Number: 83448-9-RR	GenBank Accession Number: NM_181724	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 338773	CloneNo.: 251557E2
Source: Rabbit	UNIPROT ID: Q4V9L6	Recommended Dilutions: IHC: 1:500-1:2000 IF-P: 1:200-1:800
Isotype: IgG	Full Name: transmembrane protein 119	
Immunogen Catalog Number: EG1823	Calculated MW: 29 kDa	

Applications

Tested Applications: IHC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse	IHC : Human brain cancer Astrocitoma , mouse brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

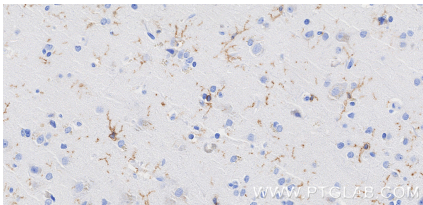
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

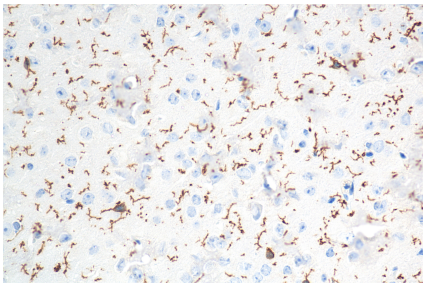
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

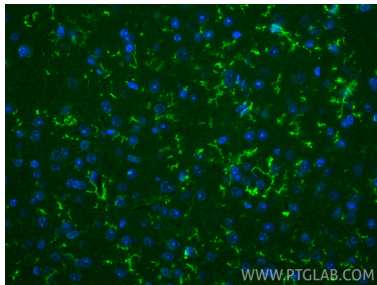
Selected Validation Data



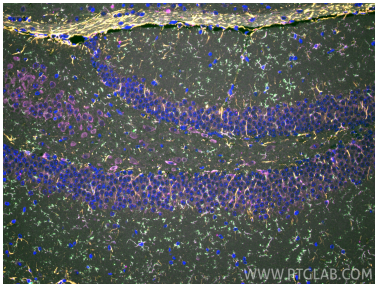
Immunohistochemical analysis of paraffin-embedded Human brain cancer(Astrocytoma) slide using 83448-9-RR (TMEM119 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



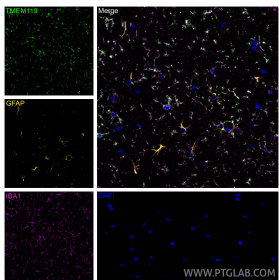
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83448-9-RR (TMEM119 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



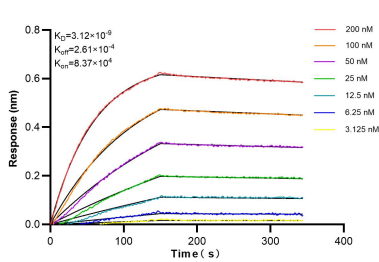
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TMEM119 antibody (83448-9-RR, Clone: 251557E2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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