

For Research Use Only

TMEM119 Recombinant monoclonal antibody, PBS Only

Catalog Number: 83448-9-PBS



Basic Information

Catalog Number: 83448-9-PBS	GenBank Accession Number: NM_181724	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 338773	CloneNo.: 251557E2
Source: Rabbit	UNIPROT ID: Q4V9L6	
Isotype: IgG	Full Name: transmembrane protein 119	
Immunogen Catalog Number: EG1823	Calculated MW: 29 kDa	

Applications

Tested Applications:
IHC, IF-P, Indirect ELISA

Species Specificity:
human, mouse

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

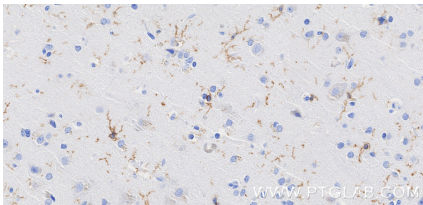
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

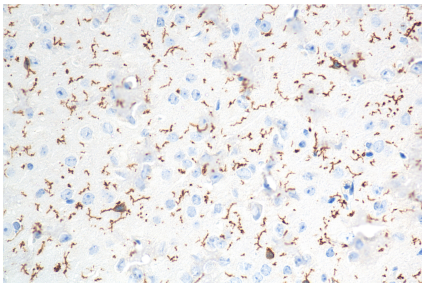
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

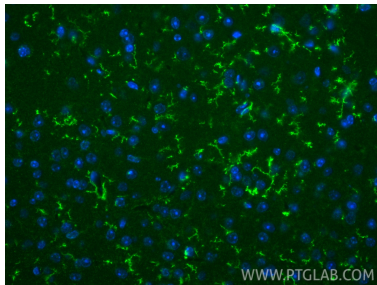
Selected Validation Data



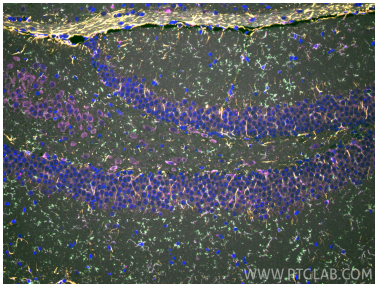
Immunohistochemical analysis of paraffin-embedded Human brain cancer(Astrocytoma) slide using 83448-9-RR (TMEM119 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83448-9-PBS in a different storage buffer formulation.



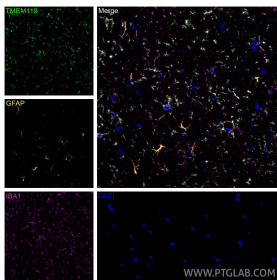
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83448-9-RR (TMEM119 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83448-9-PBS in a different storage buffer formulation.



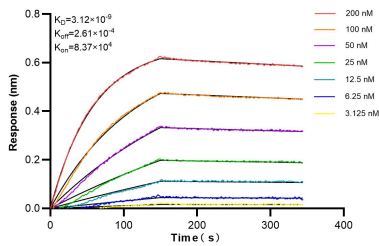
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TMEM119 antibody (83448-9-RR, Clone: 251557E2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was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



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). This data was developed using the same antibody clone with 83448-9-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83448-9-PBS in a different storage buffer formulation.



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