

For Research Use Only

# TREM2 Monoclonal antibody

Catalog Number: 68723-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 68723-1-Ig	<b>GenBank Accession Number:</b> BC032362	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54209	<b>CloneNo.:</b> 1F4H10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9NZC2	<b>Recommended Dilutions:</b> WB: 1:1000-1:5000 IF-P: 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> triggering receptor expressed on myeloid cells 2	
<b>Immunogen Catalog Number:</b> AG6843	<b>Calculated MW:</b> 222 aa, 25 kDa <b>Observed MW:</b> 26-32 kDa	

## Applications

<b>Tested Applications:</b> WB, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF, ColP	<b>WB :</b> THP-1 cells,
<b>Species Specificity:</b> human, mouse, rat	<b>IF-P :</b> mouse brain tissue, rat brain tissue
<b>Cited Species:</b> mouse	

## Background Information

TREM2 (triggering receptor expressed on myeloid cells 2) is a cell surface receptor belongs to TREM family that is expressed on osteoclast, dendritic cells, macrophages, nature killers, neutrophils and microglia (PMID: 19302484). TREM2 is localized predominantly in the Golgi complex, but also shuttles to and from the cell surface in endocytic and exocytic vesicles (PMID: 16675145). TREM2 associates with DAP12 to initiate the intracellular signalling cascade via an immunoreceptor tyrosine-based activation motif (ITAM) domain and tyrosine-kinases (PMID: 23977213). TREM2 has a calculated molecular mass of ~25kDa, but apparent molecular mass of ~40kDa (PMID: 24078628). In addition, TREM2 has a soluble form termed as sTREM-2 with molecular weights ranging between about 24kDa and 40kDa (PMID: 18790823). Loss-of-function mutations in either TREM2 or DAP12 can cause Nasu-Hakola disease (PMID: 19302484).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jie Zhang	40205303	Hepatology	IF
Shi-Yao Wang	40025720	J Alzheimers Dis	WB, ColP
Yuchen Yao	39758888	Front Neurosci	IF

## Storage

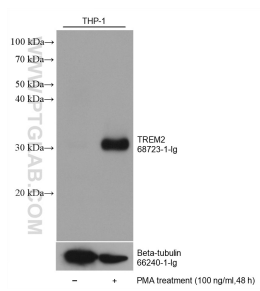
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

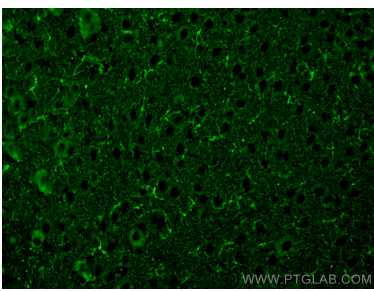
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

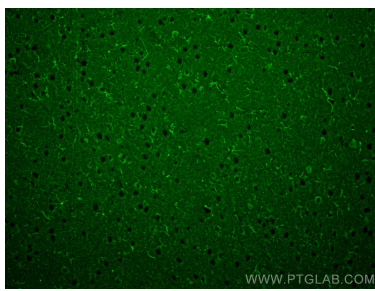
## Selected Validation Data



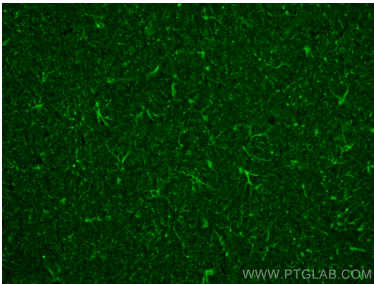
Non-treated and PMA treated THP-1 cells were subjected to SDS PAGE followed by western blot with 68723-1-Ig (TREM2 antibody) at dilution of 1:5000 incubated at room temperature for 1 hours.



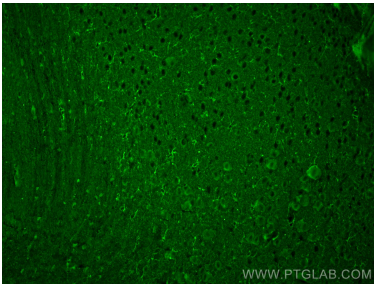
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TREM2 antibody (68723-1-Ig, Clone: 1F4H10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using TREM2 antibody (68723-1-Ig, Clone: 1F4H10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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