For Research Use Only

TREM2 Monoclonal antibody

Catalog Number:68723-1-Ig 1 Publications

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Basic Information

Catalog Number:
68723-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG6843

GenBank Accession Number:
BC032362

GeneID (NCBI):
54209

UNIPROT ID:
Q9NZC2

Full Name:
triggering receptor expressed on myeloid cells 2

Calculated MW:
222 aa, 25 kDa

Observed MW:
26-32 kDa

Purification Method:
Protein G purification

CloneNo.:
1F4H10

Recommended Dilutions:
WB 1:1000-1:5000
IF-P 1:200-1:800

Applications

Tested Applications:
WB, IF-P, ELISA

Cited Applications:
IF

Species Specificity:
human, mouse, rat

Cited Species:
mouse

Positive Controls:

WB : THP-1 cells,

IF-P : mouse brain tissue, rat brain tissue

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
Yuchen Yao	39758888	Front Neurosci	IF

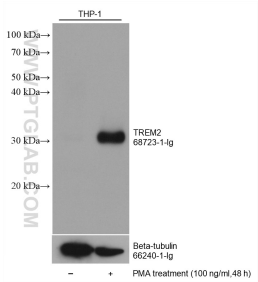
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

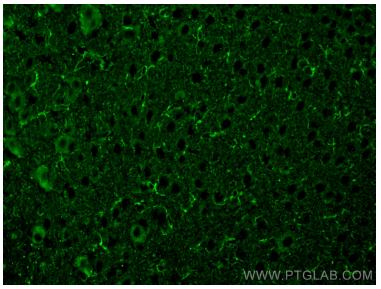
*** 20ul sizes contain 0.1% BSA

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

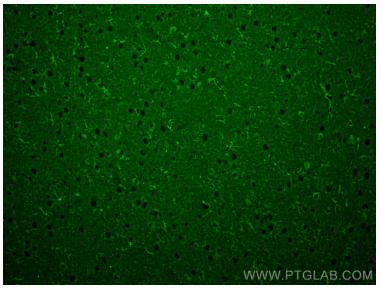
Selected Validation Data



Non-treated and PMA treated THP-1 cellls 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).



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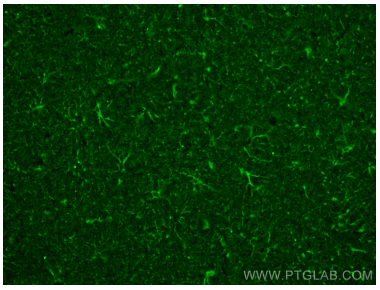

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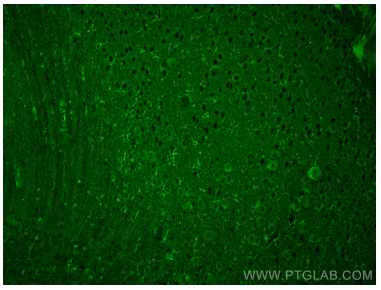

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