

For Research Use Only

TREM2 Monoclonal antibody

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



Basic Information

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

Applications

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|--|--|
| Tested Applications: WB, IF-P, ELISA | Positive Controls: |
| Cited Applications: IF | WB : THP-1 cells, |
| Species Specificity: human, mouse, rat | IF-P : mouse brain tissue, rat brain tissue |
| Cited Species: 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 |
|------------|-----------|----------------|-------------|
| Yuchen Yao | 39758888 | Front Neurosci | IF |

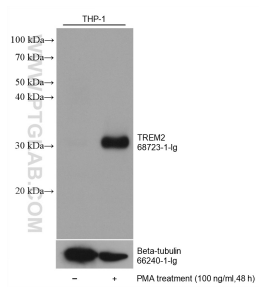
Storage

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

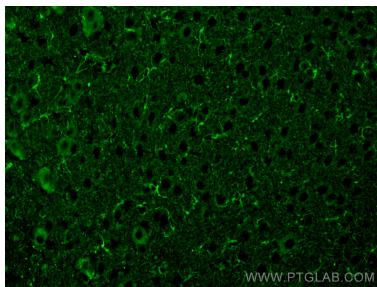
For technical support and original validation data for this product please contact:
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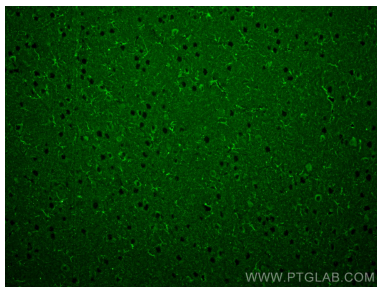
Selected Validation Data



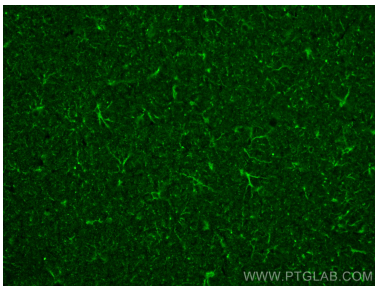
Non-treated and PMA treated THP-1 cells were subjected to SDS PAGE followed by western blot with 68723-1-Ig (TREM2 antibody) at dilution of 1:5000 incubated at room temperature for 1 hours.



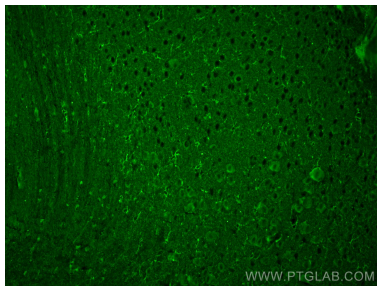
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TREM2 antibody (68723-1-Ig, Clone: 1F4H10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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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