

For Research Use Only

# TREM2 Monoclonal antibody

Catalog Number: 68723-1-Ig



## 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 µg/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 IHC 1:300-1:1200
<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

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

Human, Mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: THP-1 cells,

IHC: mouse 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).

## 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

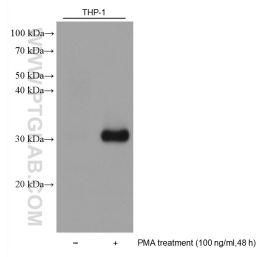
For technical support and original validation data for this product please contact:

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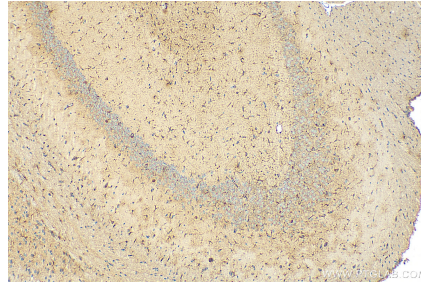
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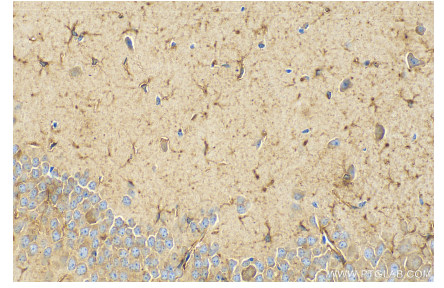
## Selected Validation Data



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.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68723-1-Ig (TREM2 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68723-1-Ig (TREM2 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).