

For Research Use Only

# TREM2 Polyclonal antibody

Catalog Number: 13483-1-AP

Featured Product

20 Publications



## Basic Information

Catalog Number:

13483-1-AP

Size:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4299

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

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:50-1:500

## Applications

Tested Applications:

IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

IHC : mouse brain tissue,

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

## 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
Yunwei Lu	34516974	Chem Biol Interact	WB,IF
Yujie Li	32952550	Neural Plast	IF,WB
Liyuan Tao	35643125	Toxicol Appl Pharmacol	WB,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:

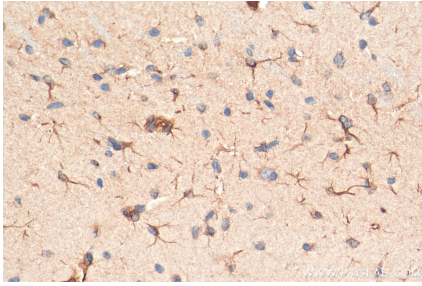
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

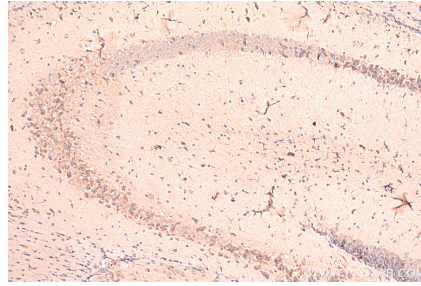
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13483-1-AP (TREM2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13483-1-AP (TREM2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).