

TREM2 Monoclonal antibody

Catalog Number: 68723-1-Ig

Basic Information

Catalog Number: 68723-1-Ig	GenBank Accession Number: BC032362	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 54209	CloneNo.: 1F4H10
Source: Mouse	UNIPROT ID: Q9NZC2	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:300-1:1200
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

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: Human, Mouse	WB: THP-1 cells, 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	

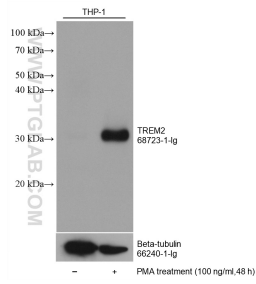
Background Information

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).

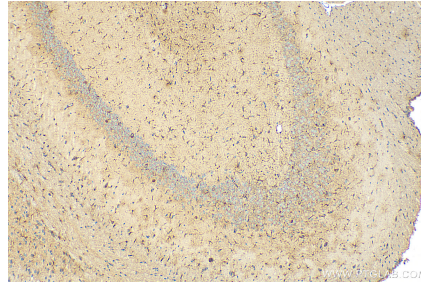
Storage

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

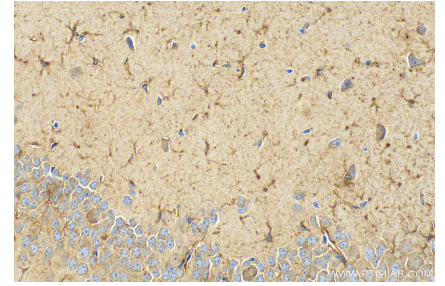
Selected Validation Data



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).