

TREM2 Monoclonal antibody, PBS Only

Catalog Number: 68723-1-PBS

Basic Information

Catalog Number: 68723-1-PBS	GenBank Accession Number: BC032362	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 54209	CloneNo.: 1F4H10
Source: Mouse	UNIPROT ID: Q9NZC2	
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, IF-P, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

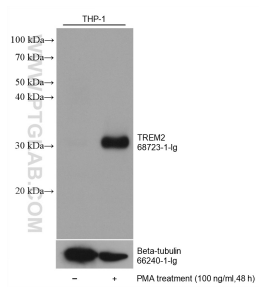
TREM2 (triggering receptor expressed on myeloid cells 2) is a cell surface receptor belongs to TREM family that is expressed on osteoclast, dendritic cells, macrophages, nature killers, neutrophils and microglia (PMID: 19302484). TREM2 is localized predominantly in the Golgi complex, but also shuttles 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

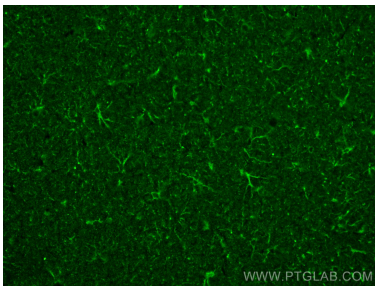
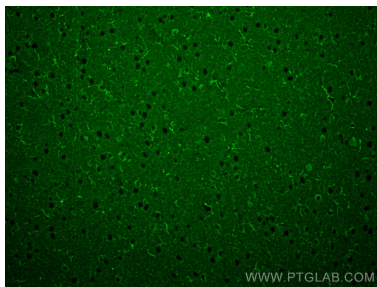
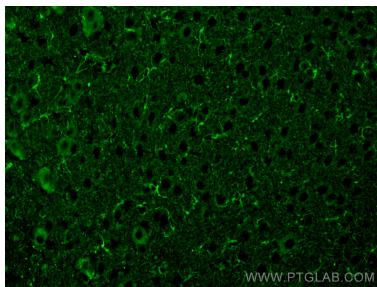
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

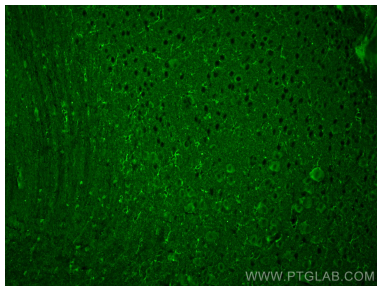
Selected Validation Data



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. This data was developed using the same antibody clone with 68723-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68723-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68723-1-PBS in a different storage buffer formulation.