TREM2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Trem2, Polyclonal Antibody
Full Product Name	Trem2 Antibody, FITC conjugated
Product Gene Name	anti-Trem2 antibody
Product Synonym Names	Triggering receptor expressed on myeloid cells 2; TREM-2; Trem2; Trem2a; Trem2b; Trem2c; Triggering receptor expressed on monocytes 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Human
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: Trem2 (MBS1492930) FITC Conjugated Antibody: Trem2 (MBS1496012)
Molecular Weight	27,304 Da
3D Structure	ModBase 3D Structure for Q99NH8
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	FITC
Immunogen	Recombinant mouse Triggering receptor expressed on myeloid cells 2 protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-22634 / sc-22635 / sc-48765
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Trem2 antibody	ELISA (EIA)
Related Product Information for anti-Trem2 antibody	May have a role in chronic inflammations and may stimulate production of constitutive rather than inflammatory chemokines and cytokines. Forms a receptor signaling complex with TYROBP and triggers activation of the immune responses in macrophages and dendritic cells.
Other Notes	Small volumes of anti-Trem2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Trem2 purchase	MBS1496012 is an antibody targeting Trem2. Also known as Trem2 Antibody, FITC conjugated. Reactive in Mouse, Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Trem2. It may not necessarily be applicable to this product.

NCBI GI #	440918700
NCBI GeneID	83433

NCBI Accession #	NP_001259007.1
UniProt Primary Accession #	Q99NH8
UniProt Secondary Accession #	Q8CGK4; Q8CIA6; Q99NH9; Q9JL34
UniProt Related Accession #	Q99NH8
GenBank Nucleotide #	NM_001272078.1
NCBI Official Full Name	triggering receptor expressed on myeloid cells 2 isoform 2
NCBI Official Synonym Full Names	triggering receptor expressed on myeloid cells 2
NCBI Official Symbol	Trem2
NCBI Official Synonym Symbols	TREM-2; Trem2a; Trem2b; Trem2c
UniProt Protein Name	Triggering receptor expressed on myeloid cells 2
UniProt Synonym Protein Names	Triggering receptor expressed on monocytes 2
Protein Family	Triggering receptor expressed on myeloid cells
UniProt Gene Name	Trem2
UniProt Synonym Gene Names	Trem2a; Trem2b; Trem2c; TREM-2
UniProt Entry Name	TREM2_MOUSE
NCBI Protein Information	triggering receptor expressed on myeloid cells 2
NCBI Summary for Trem2	The protein encoded by this gene is part of the immunoglobulin and lectin-like superfamily and functions as part of the innate immune system. This gene forms part of a cluster of genes on mouse chromosome 17 thought to be involved in innate immunity. This protein associates with the adaptor protein Dap-12 and recruits several factors, such as kinases and phospholipase C-gamma, to form a receptor signaling complex that activates myeloid cells, including dendritic cells and microglia. In humans homozygous loss-of-function mutations in this gene cause Nasu-Hakola disease and mutations in this gene may be risk factors to the development of Alzheimer's disease. In mouse mutations of this gene serve as a pathophysiological model for polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (Nasu-Hakola disease) and for inflammatory bowel disease. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jan 2013]
UniProt Comments for Trem2	TREM2: May have a role in chronic inflammations and may stimulate production of constitutive rather than inflammatory chemokines and cytokines. Forms a receptor signaling complex with TYROBP and triggers activation of the immune responses in macrophages and dendritic cells. Defects in TREM2 are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL); also known as presenile dementia with bone cysts or Nasu-Hakola disease (NHD). PLOSL is a recessively inherited disease characterized by a combination of psychotic symptoms rapidly progressing to presenile dementia and bone cysts restricted to wrists and ankles. PLOSL has a global distribution, although most of the patients have been diagnosed in Finland and Japan, with an estimated population prevalence of 2x10(-6) in the Finns. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Cellular Component: extracellular region; integral to membrane; intracellular membrane-bound organelle; membrane; plasma membrane Molecular Function: lipopolysaccharide binding; peptidoglycan binding; protein binding; transmembrane receptor activity Biological Process: detection of lipopolysaccharide; detection of peptidoglycan; innate immune response; lipopolysaccharide-mediated signaling pathway; phagocytosis, engulfment; positive regulation of antigen processing and presentation of peptide antigen via MHC class II; positive regulation of calcium-mediated signaling; positive regulation of peptidyl-tyrosine phosphorylation
Research Articles on Trem2	**1.** These findings place TREM2 as a key regulator of microglia activation in vivo in response to tissue damage

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