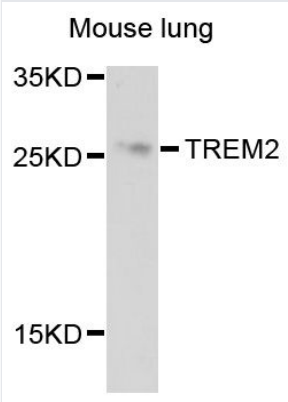
TREM2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TREM2, Polyclonal Antibody
Full Product Name	TREM2 Polyclonal Antibody
Product Gene Name	anti-TREM2 antibody
Product Synonym Names	TREM-2; Trem2a; Trem2b; Trem2c
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	25kDa
OMIM	AF213457 mRNA
3D Structure	ModBase 3D Structure for Q9NZC2
Immunogen	Recombinant protein of human TREM2
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-TREM2 antibody	Primary antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TREM2 antibody	Western Blot (WB)
Application Notes for anti-TREM2 antibody	WB: 1:500 - 1:1000
Related Product Information for anti-TREM2 antibody	This gene encodes a membrane protein that forms a receptor signaling complex with the TYRO protein tyrosine kinase binding protein. The encoded protein functions in immune response and may be involved in chronic inflammation by triggering the production of constitutive inflammatory cytokines. Defects in this gene are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL). Alternative splicing results in multiple transcript variants encoding different isoforms.
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	MBS9130982 is an antibody targeting TREM2. Also known as TREM2 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TREM2 antibody
Western blot analysis of extracts of mouse lung, using TREM2 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 20s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TREM2. It may not necessarily be applicable to this product.

NCBI GI #	50401689
NCBI GeneID	54209
NCBI Accession #	Q9NZC2.1
UniProt Primary Accession #	Q9NZC2
UniProt Secondary Accession #	Q8N5H8; Q8WYN6
UniProt Related Accession #	Q9NZC2
NCBI Official Full Name	Triggering receptor expressed on myeloid cells 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	TREM-2
NCBI Protein Information	triggering receptor expressed on myeloid cells 2

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 Chromosomal Location of Human Ortholog: 6p21.1 Cellular Component: integral to membrane; intracellular membrane-bound organelle; plasma membrane Molecular Function: receptor activity Biological Process: humoral immune response; innate immune response; 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; regulation of immune response Disease: Polycystic Lipomembranous Osteodysplasia With Sclerosing Leukoencephalopathy
Research Articles on TREM2	**1.** silencing TREM-2 downregulated the expression levels of Bcl2 and PCNA, and upregulated the expression levels of Bax and caspase-3 in renal cell carcinoma cells. Depletion of TREM-2 inactivated PI3K/Akt pathway through increasing the expression of PTEN. TREM-2 acts as an oncogene in the development of renal cell carcinoma and can be considered as a novel therapeutic factor in the treatment of renal cell carcinoma.
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