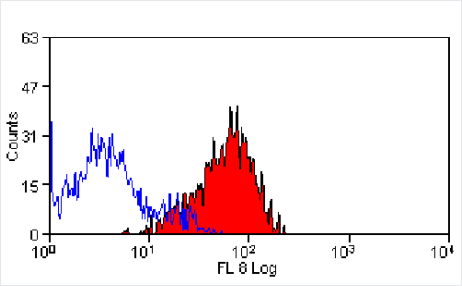
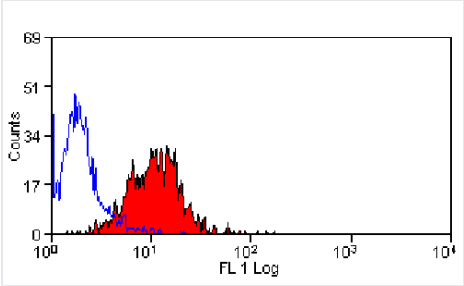
TREM-1 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

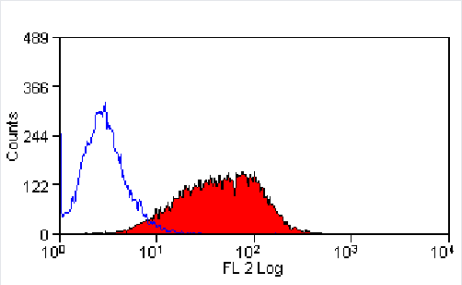
Product Name	TREM-1, Monoclonal Antibody
Full Product Name	RAT ANTI MOUSE TREM-1
Product Gene Name	anti-TREM-1 antibody
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	L5-B8.2A12.3A12
Host	Rat
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.
Molecular Weight	25,409 Da
3D Structure	ModBase 3D Structure for Q9JKE2
Perservative Stabilisers	0.09% Sodium Azide (NaN3) Preparation||Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Immunogen	Mouse TREM-1 Fc fusion protein Buffer Solution||Phosphate buffered saline
Target Species	Mouse
Applications Tested/Suitable for anti-TREM-1 antibody	Immunohistology Frozen*, Flow cytometry (FC/FACS), Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-TREM-1 antibody	Flow Cytometry: Use 10ul of the suggested working dilution to label 1x106 cells in 100ul. **Immunohistology - Frozen:** Application Note: **The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. MyBioSource recommends the use of acetone fixation for frozen sections.** **Flow Cytometry:** Minimum Dilution: 1/25; Maximum Dilution: 1/100
Related Product Information for anti-TREM-1 antibody	Rat anti Mouse Trem-1 antibody, clone L5-B8.2A12.3A12 recognizes mouse triggering receptor expressed on myeloid cells 1 (TREM-1), a 30kD member of the immunoglobulin superfamily expressed on neutrophils and a subset of monocytes. TREM-1 is involved in the microbial inflammatory response. It acts in conjunction with the adaptor protein DAP12 to activate neutrophils and monocytes, leading to the secretion of pro-inflammatory mediators and enhancement of the inflammatory response. Microbial infection also induces the release of soluble form of TREM-1 from monocytes, which is reported to act as an inhibitor of TREM-1. TREM-1 mediates the septic shock pathway, and blocking TREM-1 has been reported to reduce inflammation and increase survival in certain models of bacterial infection.
Other Notes	Small volumes of anti-TREM-1 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 TREM-1 purchase	MBS219711 is an antibody targeting TREM-1. Also known as RAT ANTI MOUSE TREM-1. Host: Rat.



Testing Data of anti-TREM-1 antibody
Staining of J774 cells with Rat anti Mouse TREM-1:Alexa Fluor ?647 (MBS219711A647)



Testing Data of anti-TREM-1 antibody
Staining of J774 cells with Rat anti Mouse TREM-1:Alexa Fluor 488 (MBS219711A488)



Testing Data of anti-TREM-1 antibody
Staining of J774 cells with Rat anti Mouse TREM-1:RPE (MBS224418)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TREM-1. It may not necessarily be applicable to this product.

NCBI GI #	10946760
NCBI GeneID	58217
NCBI Accession #	NP_067381.1
UniProt Primary Accession #	Q9JKE2
UniProt Secondary Accession #	Q3TAL7
UniProt Related Accession #	Q9JKE2
GenBank Nucleotide #	NM_021406.5
NCBI Official Full Name	triggering receptor expressed on myeloid cells 1
NCBI Official Synonym Full Names	triggering receptor expressed on myeloid cells 1
NCBI Official Symbol	Trem1
UniProt Protein Name	Triggering receptor expressed on myeloid cells 1
UniProt Synonym Protein Names	CD_antigen: CD354
Protein Family	Triggering receptor expressed on myeloid cells
UniProt Gene Name	Trem1
UniProt Synonym Gene Names	TREM-1
UniProt Entry Name	TREM1_MOUSE
NCBI Protein Information	triggering receptor expressed on myeloid cells 1; triggering receptor expressed in monocytes 1

UniProt Comments for TREM-1	TREM1: Stimulates neutrophil and monocyte-mediated inflammatory responses. Triggers release of pro-inflammatory chemokines and cytokines, as well as increased surface expression of cell activation markers. Amplifier of inflammatory responses that are triggered by bacterial and fungal infections and is a crucial mediator of septic shock. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc.; Membrane protein, integral Cellular Component: membrane; cell; integral to membrane Biological Process: neutrophil chemotaxis; cell migration; cytokine metabolic process; cytokine secretion during immune response; chemokine metabolic process
Research Articles on TREM-1	**1.** TREM-1 is significantly associated with LPS-induced left ventricular systolic dysfunction in BALB/c mice
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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