

DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse TREM-2 in direct ELISAs and Western blots. Stains TREM-2 transfectants but not TREM-1 transfectants.
Source	Monoclonal Rat IgG _{2B} Clone # 237920
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TREM-2 extracellular domain Accession # Q99NH8
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	5 µL/10 ⁶ cells	See Below

DATA

Flow Cytometry

Detection of TREM-2 in RAW 264.7 Mouse Cell Line by Flow Cytometry. RAW 264.7 mouse monocyte/macrophage cell line was stained with Rat Anti-Human/Mouse TREM-2 Alexa Fluor® 594-conjugated Monoclonal Antibody (Catalog # FAB17291T, filled histogram) or isotype control antibody (Catalog # IC0131T, open histogram). View our protocol for [Staining Membrane-associated Proteins](#).

Flow Cytometry

Detection of TREM-2 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human Integrin αM/CD11b APC-conjugated Monoclonal Antibody (Catalog # FAB16991A) and either (A) Rat Anti-Human/Mouse TREM-2 Alexa Fluor® 594-conjugated Monoclonal Antibody (Catalog # FAB17291T) or (B) Rat IgG_{2B} Alexa Fluor 594 Isotype Control (Catalog # IC0131T). View our protocol for [Staining Membrane-associated Proteins](#).

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

TREM-2 is a single V-type Ig-like domain-containing transmembrane (TM) receptor that is expressed on cells of the hematopoietic and nervous systems. Although single residue polymorphisms may exist, one soluble isoform variant is reported that shows an 88 amino acid (aa) substitution for the C-terminal 66 aa of the TM isoform. TREM-2 is best known for its association with the adapter protein DAP12 that delivers an activating signal that plays a role in both the innate and adaptive immune responses.

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