

DESCRIPTION

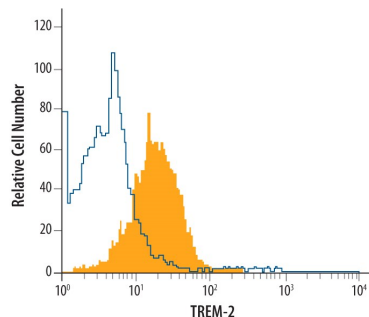
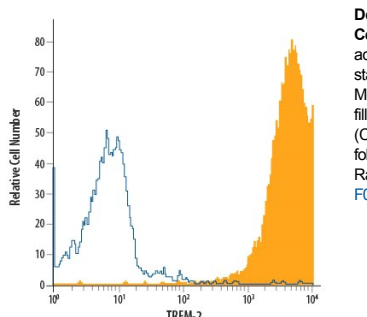
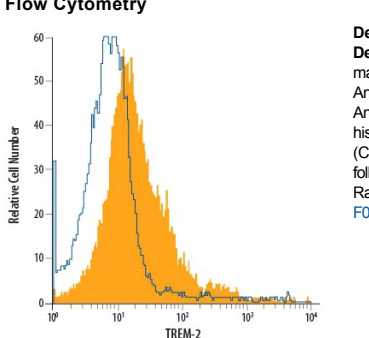
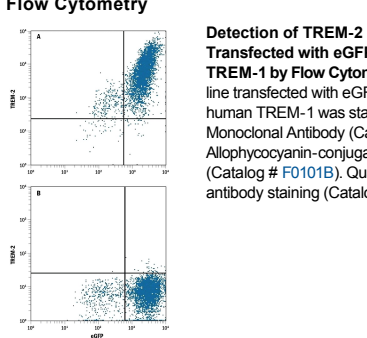
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse TREM-2 in direct ELISAs and Western blots. Stains TREM-2 transfectants but not TREM-1 transfectants.
Source	Monoclonal Rat IgG _{2B} Clone # 237920
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TREM-2 extracellular domain Accession # Q99NH8
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p>  <p>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 Monoclonal Antibody (Catalog # MAB17291, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Phycoerythrin-conjugated Anti-Rat IgG F(ab')₂ Secondary Antibody (Catalog # F0105B).</p>	<p>Flow Cytometry</p>  <p>Detection of TREM-2 in THP-1 Human Cell Line by Flow Cytometry. THP-1 human acute monocytic leukemia cell line was stained with Rat Anti-Human/Mouse TREM-2 Monoclonal Antibody (Catalog # MAB17291, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113).</p>
<p>Flow Cytometry</p>  <p>Detection of TREM-2 in Human Mature Dendritic Cells by Flow Cytometry. Human mature dendritic cells were stained with Rat Anti-Human/Mouse TREM-2 Monoclonal Antibody (Catalog # MAB17291, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113).</p>	<p>Flow Cytometry</p>  <p>Detection of TREM-2 in HEK293 Human Cell Line Transfected with eGFP and Either Human TREM-2 or Human TREM-1 by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with eGFP and either (A) human TREM-2 or (B) human TREM-1 was stained with Rat Anti-Human/Mouse TREM-2 Monoclonal Antibody (Catalog # MAB17291) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB0061).</p>

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TREM-2 is a single Ig domain receptor expressed by cells of myeloid lineage. Two closely related transcripts were reported in mouse and designated TREM-2a and TREM-2b. TREM-2b is a pattern recognition receptor that binds anionic ligands. TREM-2 associates with the adapter protein DAP12 to deliver an activating signal that plays a role in both innate and adaptive immune responses.