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# anti-TREM2 antibody (Extracellular, N-Term)





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Quantity:	50 μL
Target:	TREM2
Binding Specificity:	AA 42-56, Extracellular, N-Term
Reactivity:	Mouse, Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TREM2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)
Product Details	
Immunogen:	Immunogen: Synthetic peptide
	Immunogen Sequence: (C)KHWGRRKAW(S)RQLGE, corresponding to amino acid residues 42-
	56 of mouse TREM2
Isotype:	IgG
Characteristics:	Anti-TREM2 (extracellular) Antibody (ABIN7043865, ABIN7044666 and ABIN7044667)) is a
	highly selective antibody directed against an epitope of the mouse protein. The antibody can be
	used in western blot and live cell flow cytometry applications. The antibody recognizes an
	extracellular epitope and can be used to detect the protein in living cells. It has been designed
	to recognize TREM2 from mouse, human, and rat samples.
Purification:	Affinity purified on immobilized antigen.

### **Target Details**

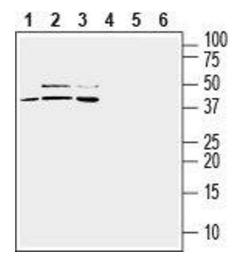
Target:	TREM2
Alternative Name:	TREM2 (TREM2 Products)
Background:	Alternative names: TREM2, Triggering receptor expressed on myeloid cells 2, Triggering receptor expressed on monocytes 2
Gene ID:	83433
NCBI Accession:	NM_018965
UniProt:	Q99NH8

## **Application Details**

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

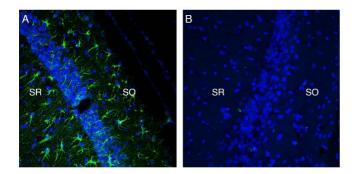
#### Handling

Format:	Lyophilized
Reconstitution:	$25~\mu\text{L},50~\mu\text{L}$ or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature.  Upon arrival, it should be stored at -20°C.  Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.  For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



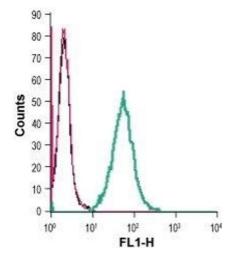
#### **Western Blotting**

**Image 1.** Western blot analysis of mouse BV-2 microglia (lanes 1 and 4), human U-87 MG glioblastoma (lanes 2 and 5) and human THP-1 monocytic leukemia (lanes 3 and 6) cell line lysates: - 1-3. Anti-TREM2 (extracellular) Antibody (ABIN7043865, ABIN7044666 and ABIN7044667), (1:200).4-6. Anti-TREM2 (extracellular) Antibody, preincubated with TREM2 (extracellular) Blocking Peptide (#BLP-NR018).



#### **Immunohistochemistry**

Image 2. Expression of TREM2 in mouse hippocampus in a kainic acid neurodegeneration model. Immunohistochemical staining of perfusion-fixed frozen mouse brain sections collected 4 days post kainate injection with Anti-TREM2 (extracellular) Antibody (ABIN7043865, ABIN7044666 ABIN7044667), (1:300), followed by goat anti-rabbit-AlexaFluor-488. A. Staining in the mouse hippocampal CA1 region showed TREM2 immunoreactivity (green) in astrocytes in the stratum oriens (SO) and the stratum radiatum (SR). B. Pre-incubation of the antibody with TREM2 (extracellular) Blocking Peptide (BLP-NR018), suppressed staining. Cell nuclei are stained with DAPI (blue).



#### **Flow Cytometry**

**Image 3.** Cell surface detection of TREM2 in live intact mouse J774 macrophage cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-TREM2 (extracellular) Antibody (ABIN7043865, ABIN7044666 and ABIN7044667), (2.5  $\mu$ g) + goat-anti-rabbit-FITC.

Please check the product details page for more images. Overall 4 images are available for ABIN7043865.