bs-4886R **[Primary Antibody]**

TREM1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 58217 **SWISS:** Q9JKE2

Target: TREM1

Immunogen: KLH conjugated synthetic peptide derived from mouse TREM1: 65-150/230.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a receptor belonging to the Ig superfamily that is expressed on myeloid cells. This protein amplifies neutrophil and monocyte-mediated inflammatory responses triggered by bacterial and fungal infections by stimulating release of pro-inflammatory chemokines and cytokines, as well as increased surface expression of cell activation markers. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Jun 2011].

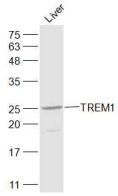
Applications: **WB** (1:500-2000)
Flow-Cyt (1ug/Test)

Reactivity: Mouse, Rat

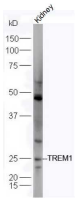
Predicted MW.: 23 kDa

Subcellular Location: Secreted ,Cell membrane

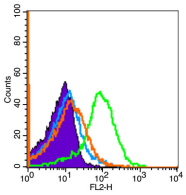
VALIDATION IMAGES



Sample: Liver (Rat) Lysate at 40 ug Primary: Anti-TREM1 (bs-4886R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 23 kD Observed band size: 25 kD



Sample: kidney (Mouse) Lysate at 40 ug Primary: Anti-TREM1 (bs-4886R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 23 kD Observed band size: 25 kD



Blank control (black line): Mouse spleen(Black). Primary Antibody (green line): Rabbit Anti-TREM1 antibody (bs-4886R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 4% paraformaldehyde for 10 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature The secondary antibody used for 40 min at room temperature. Acquisition of 10,000 events was performed.

SELECTED CITATIONS

- **[IF=38.079]** Liu, Xuanyu. et al. Single-cell RNA sequencing of subcutaneous adipose tissues identifies therapeutic targets for cancer-associated lymphedema. CELL DISCOV. 2022 Jun;8(1):1-20 IF ;Mouse. 35725971
- **[IF=10.849]** Liu, Xuanyu. et al. Single-cell RNA sequencing identifies an Il1rn+/Trem1+ macrophage subpopulation as a cellular target for mitigating the progression of thoracic aortic aneurysm and dissection. Cell Discov. 2022 Feb;8(1):1-21 IF

;Mouse. 35132073

- **[IF=8.484]** Amir Boufenzer. et al. Potentiation of NETs release is novel characteristic of TREM-1 activation and the pharmacological inhibition of TREM-1 could prevent from the deleterious consequences of NETs release in sepsis. Cell Mol Immunol. 2021 Jan;18(2):452-460 WB ;Human. 33420354
- **[IF=3.754]** Zhao,et al.Vitamin D suppresses macrophage infiltration by down-regulation of TREM-1 in diabetic nephropathy rats.(2018) Molecular and Cellular Endocrinology. :. WB,ICC ;Mouse. 29331667
- **[IF=3.923]** Zhang X et al. Active vitamin D regulates macrophage M1/M2 phenotypes via the STAT-1-TREM-1 pathway in diabetic nephropathy.(2018) J. Cell. Physiol. WB,IHC,IF,ICC ;Human,Rat&Mouse. 30478987