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TREM1 Rabbit pAb

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Catalog # AP94021

Product Information

Application	WB
Primary Accession	Q9JKE2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25409
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse TREM1
Epitope Specificity	65-150/230
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 1: Cell membrane; Single-pass type I membrane protein (Potential). Isoform 2: Secreted (Potential).
SIMILARITY	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
SUBUNIT	Interacts with TYROBP/DAP12.
Post-translational modifications	Glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	58217
Other Names	Triggering receptor expressed on myeloid cells 1, TREM-1, CD354, Trem1
Target/Specificity	Highly expressed in adult liver, lung and spleen than in corresponding fetal tissue. Also expressed in the lymph node, placenta, spinal cord and heart tissues. Expression is more elevated in peripheral blood leukocytes than in the bone marrow and in normal cells than malignant cells. Expressed at low levels in the early development of the hematopoietic system and in the promonocytic stage and at high levels in mature monocytes. Strongly expressed in acute inflammatory lesions caused by bacteria and fungi.

	Isoform 2 was detected in the lung, liver and mature monocytes.
Dilution	WB=1:500-2000,Flow-Cyt=1ug/Test
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Trem1
Function	Cell surface receptor that plays important roles in innate and adaptive immunity by amplifying inflammatory responses. Upon activation by various ligands such as PGLYRP1, HMGB1 or HSP70, multimerizes and forms a complex with transmembrane adapter TYROBP/DAP12. In turn, initiates a SYK-mediated cascade of tyrosine phosphorylation, activating multiple downstream mediators such as BTK, MAPK1, MAPK3 or phospholipase C-gamma. This cascade promotes the neutrophil- and macrophage-mediated release of pro-inflammatory cytokines and/or chemokines, as well as their migration and thereby amplifies inflammatory responses that are triggered by bacterial and fungal infections (PubMed:23241959, PubMed:27328755). By also promoting the amplification of inflammatory signals that are initially triggered by Toll-like receptor (TLR) and NOD-like receptor engagement, plays a major role in the pathophysiology of acute and chronic inflammatory diseases of different etiologies including septic shock and atherosclerosis (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q9NP99}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q9NP99} Note=Recruited to lipid rafts when activated {ECO:0000250|UniProtKB:Q9NP99}

Background

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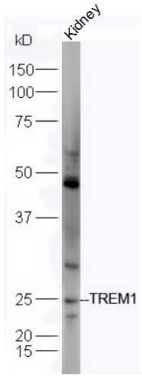
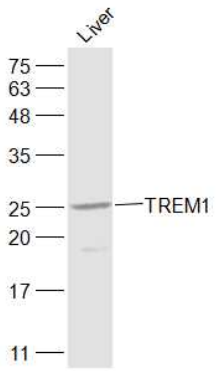
Images

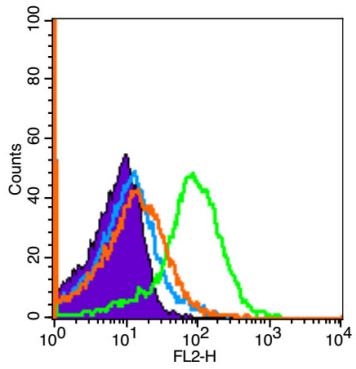


Sample: kidney (Mouse) Lysate at 40 ug Primary: Anti-TREM1 (AP94021) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 23 kD Observed band size: 25 kD

Sample: Liver (Rat) Lysate at 40 ug Primary: Anti-TREM1 (AP94021) at 1/1000 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 (AP94021) Dilution: 1 µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1 µg /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.