

Rabbit anti-Rat Trem2 Polyclonal Antibody | anti-Trem2 antibody

Anti-Trem2 Antibody

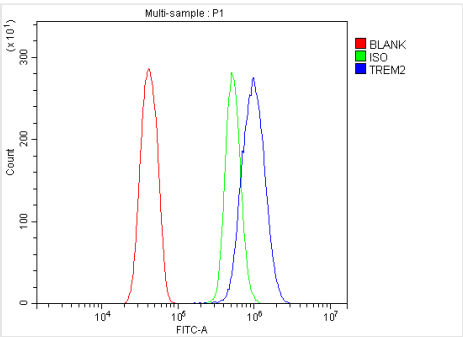
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125637	Rabbit	Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Trem2; Polyclonal Antibody; Anti-Trem2 Antibody; TREM2; Triggering receptor expressed on myeloid cells 2; TREM-2; Triggering receptor expressed on monocytes 2; triggering receptor expressed on myeloid cells 2; anti-Trem2 antibody

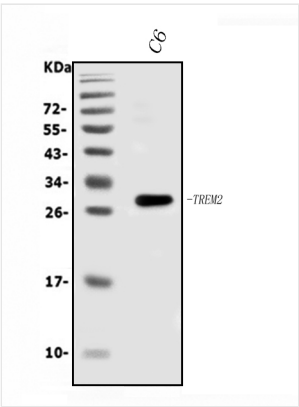
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Trem2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg NaN3.
Applicable Applications for anti-Trem2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived rat Trem2 recombinant protein (Position: L19-D131).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of RH35 cells using anti-Trem2 antibody (AAA125637).Overlay histogram showing RH35 cells stained with AAA125637 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Trem2 Antibody (AAA125637, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Trem2 using anti-Trem2 antibody (AAA125637).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat C6 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Trem2 antigen affinity purified polyclonal antibody (Catalog # AAA125637) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Trem2 at approximately 28KD. The expected band size for Trem2 is at 28KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Trem2 antibody	Triggering receptor expressed on myeloid cells 2 also known as TREM-2 is a protein that in humans is encoded by the TREM2 gene. This gene encodes a membrane protein that forms a receptor signaling complex with the TYRO protein tyrosine kinase binding protein. The encoded protein functions in immune response and may be involved in chronic inflammation by triggering the production of constitutive inflammatory cytokines. Defects in this gene are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL). Alternative splicing results in multiple transcript variants encoding different isoforms.
References	1. Allcock, R. J. N., Barrow, A. D., Forbes, S., Beck, S., Trowsdale, J. The human TREM gene cluster at 6p21. 1 encodes both activating and inhibitory single IgV domain receptors and includes NKp44. <i>Europ. J. Immun.</i> 33: 567-577, 2003. 2. Atagi, Y., Liu, C. -C., Painter, M. M., Chen, X. -F., Verbeek, C., Zheng, H., Li, X., Rademakers, R., Kang, S. S., Xu, H., Younkin, S., Das, P., Fryer, J. D., Bu, G. Apolipoprotein E is a ligand for triggering receptor expressed on myeloid cells 2 (TREM2). <i>J. Biol. Chem.</i> 290: 26043-26050, 2015. 3. Bailey, C. C., DeVaux, L. B., Farzan, M. The triggering receptor expressed on myeloid cells 2 binds apolipoprotein E. <i>J. Biol. Chem.</i> 290: 26033-26042, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157817993
NCBI GeneID	301227
NCBI Accession #	NP_001100354.1
NCBI GenBank Nucleotide #	NM_001106884.1
UniProt Accession #	D3ZZ89
NCBI Official Full Name	triggering receptor expressed on myeloid cells 2
NCBI Official Synonym Full Names	triggering receptor expressed on myeloid cells 2
NCBI Official Symbol	Trem2

NCBI Protein Information	triggering receptor expressed on myeloid cells 2
UniProt Protein Name	Triggering receptor expressed on myeloid cells 2 (Predicted), isoform CRA_a
UniProt Gene Name	Trem2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/trem2-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125637>