

Human TLT-1/TREML1 ELISA Kit | TLT-1/TREML1 elisa kit

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CATALOG #
AAA258441

REACTIVITY
Human

PRODUCT SYNONYMS

TLT-1/TREML1; Human TLT-1/TREML1 ELISA Kit; TLT-1/TREML1 ELISA Kit; Human; triggering receptor expressed on myeloid cells like 1; dJ238O23.3 ELISA Kit; GLTL1825 ELISA Kit; MGC119173 ELISA Kit; PRO3438 ELISA Kit; TLT-1 ELISA Kit; TLT1 ELISA Kit; UNQ1825/PRO3438 ELISA Kit; TLT-1/TREML1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human TLT-1/TREML1 concentration in serum, cell culture supernates and plasma.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Cell supernatant, Plasma
Detection Range	28.13-1800pg/mL
Sensitivity	12.98pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant Human TREML1 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

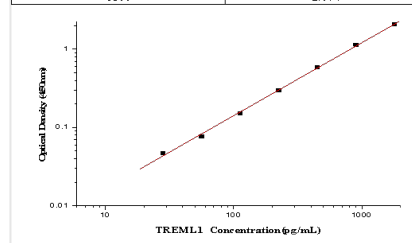
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Recombinant human TREML2 IL7

Application Data

This assay recognizes both recombinant and natural Human TREML1. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
28.13	0.047
56.25	0.077
112.5	0.152
225	0.299
450	0.593
900	1.143
1800	2.074



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for TLT-1/TREML1 elisa kit	This TLT-1/TREML1 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human TLT-1/TREML1 protein in Serum, Cell supernatant, Plasma. It contains recombinant Human TLT-1/TREML1, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Trem-like transcript 1 protein, also known as Triggering receptor expressed on myeloid cells-like protein 1, TREML1 and TLT-1, is a cytoplasm and single-pass type I membrane protein. TREML1/TLT-1 is expressed exclusively in platelets and megakaryocytes (MKs) and that its expression is up-regulated dramatically upon platelet activation. It is a receptor that may play a role in the innate and adaptive immune response. TREML1/TLT-1 contains the characteristic single V-set immunoglobulin (Ig) domain, its longer cytoplasmic tail is composed of both a proline-rich region and an immune receptor tyrosine-based inhibitory motif, the latter known to be used for interactions with protein tyrosine phosphatases. The triggering receptors expressed on myeloid cells (TREMs) have drawn considerable attention due to their ability to activate multiple cell types within the innate immune system, including neutrophils, monocyte/macrophages, and dendritic cells, via their association with DAP12. TREML1/TLT-1 is prepackaged, along with CD62P, into both MK and platelet alpha-granules. Differences in thrombin-induced redistribution of CD62P and TREML1 indicate that TREML1 is not simply cargo of alpha-granules but may instead regulate granule construction or dispersal. TREML1/TLT-1 does not function to inhibit members of the TREM family but instead may play a role in maintaining vascular hemostasis and regulating coagulation and inflammation at sites of injury.
References	Washington A.V., et al., 2002, Blood 100:3822-4. Allcock R.J.N., et al., 2003, Eur. J. Immunol. 33:567-77. Washington A.V., et al., 2004, Blood 104:1042-7. Barrow A.D., et al., 2004, J. Immunol. 172:5838-42. Gattis J.L., et al., 2006, J. Biol. Chem. 281:13396-403.

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.