

Human TREM-2/TREM2 ELISA Kit | TREM-2/TREM2 elisa kit

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CATALOG #
AAA258419

REACTIVITY
Human

PRODUCT SYNONYMS

TREM-2/TREM2; Human TREM-2/TREM2 ELISA Kit; TREM-2 ELISA Kit; Human; triggering receptor expressed on myeloid cells 2; Trem2a ELISA Kit; Trem2b ELISA Kit; Trem2c ELISA Kit; TREM-2/TREM2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The kit has been verified by high purity Human TREM-2/TREM2 recombinant protein.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Recombinant protein
Detection Range	78.13-5000pg/mL
Sensitivity	33.48pg/mL
Conjugation	HRP
Interference	Preparations of human TREML2 at 50ng/mL in a mid-range recombinant human TREM2 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

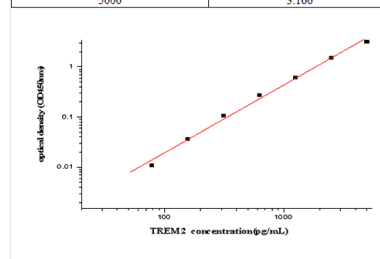
IMAGES

Recombinant human			
TREML2	IL1	IL2	IL33
IL10	IL8	PDGF	TNF- α
IL4	IL6	IFN- γ	VEGF
MIP-1 β	TIMP1	TIMP2	GM-CSF
SCF			

Application Data

This assay recognizes recombinant Human TREM2. 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
78.13	0.011
156.25	0.037
312.5	0.108
625	0.274
1250	0.607
2500	1.511
5000	3.166



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 TREM-2/TREM2 elisa kit	This TREM-2 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human TREM-2 protein in Recombinant protein. It contains recombinant Human TREM-2, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Triggering receptor expressed on myeloid cells 2 (TREM2) is a single Ig domain receptor. It is expressed on macrophages and dendritic cells but not on granulocytes or monocytes. Its expression is most abundant in the basal ganglia, corpus callosum, medulla oblongata and spinal cord, and microglial cells are the major TREM2-producing cell type in the central nervous system (CNS). TREM2 may play a role in chronic inflammations and may stimulate production of constitutive rather than inflammatory chemokines and cytokines. TREM2 forms a receptor signaling complex with TYROBP and triggers activation of the immune responses in macrophages and dendritic cells. It also associates with the signal adapter protein, DAP12, which has a cytoplasmic ITAM, leading to the subsequent activation of cytoplasmic tyrosine kinases. TREM2 is both required and sufficient for competent uptake of apoptotic neuronal cells. TREM2 and TREM2-L form a receptor-ligand pair connecting microglia with apoptotic neurons, directing removal of damaged cells to allow repair. Deficiency of the adapter protein DAP12 or its associated receptor TREM2 is associated with abnormal osteoclast development in humans. Defects in TREM2 are causes of PLOSL, also known as NHD. In addition, TREM2 signaling is also an important pathway to promote healing of wounds in the colon where stem cell replacement is necessary.
References	Bouchon, A. et al., 2000, J. Immunol. 164: 4991-4995. Paloneva, J. et al., 2002, Am. J. Hum. Genet. 71:656-662. Prada, I. et al., 2006, Neuroscience. 140 (4): 1139-48. Neumann, H. et al., 2007, J Neuroimmunol. 184 (1-2): 92-9. Thrash, JC. et al., 2009, Neurochem Res. 34 (1): 38-45.

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.