

Mouse TREM-1 ELISA Kit | TREM1 elisa kit

Mouse TREM-1 PicoKine ELISA Kit

CATALOG #
AAA45761

REACTIVITY
Mouse

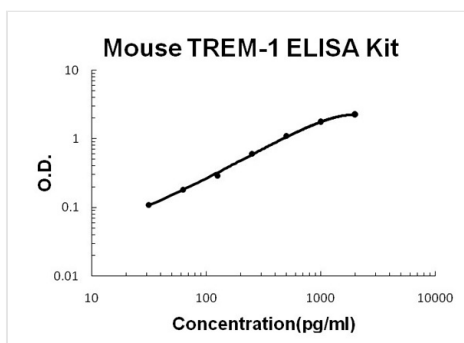
PRODUCT SYNONYMS

TREM-1; Mouse TREM-1 PicoKine ELISA Kit; Triggering receptor expressed on myeloid cells 1; triggering receptor expressed on myeloid cells 1; CD354; TREM 1; Triggering receptor expressed on monocytes 1; Triggering receptor TREM 1; Triggering receptor TREM1; TREM1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse TREM-1
Sequence Length	230
Samples	Cell culture supernates, serum, plasma (heparin, EDTA), Cell lysates and tissue homogenates
Assay Type	Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Mouse TREM-1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for TREM1 elisa kit

Principle of the assay: mouse TREM-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TREM-1 has been precoated onto 96-well plates. Standards(NSO, A21-S202) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TREM-1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse TREM-1 amount of sample captured in plate.

Background: Trem1, Triggering receptor expressed on myeloid cells-1, is encoded by Trem1 gene. The expression of Trem1 is in monocytes and neutrophils but not in lymphocytes, dendritic cells, or other cell types. Trem1 is a 30-kD glycoprotein that is reduced to 26 kD by deglycosylation, in agreement with the predicted molecular mass. The Trem1 gene which contains 4 exons maps to chromosome 6p21.1, within a TREM gene cluster and the mouse Trem1 gene maps to chromosome 17 in a region that shows homology of synteny to human chromosome 6. The expression of Trem1 is upregulated by stimulation with lipopolysaccharide(LPS), gram-negative bacteria, and fungi. Cross-linking of Trem1 on neutrophils induces interleukin-8(IL8) and myeloperoxidase secretion, while cross-linking on monocytes induces not only secretion of IL8 but also of monocyte chemotactic protein-1(MCP1, or SCYA2) and tumor necrosis factor(TNF); MCP1 and TNF secretion could be further upregulated by LPS-mediated priming. Trem1 engagement also induces upregulation of adhesion molecules(e.g., ITGB1) and costimulatory molecules(e.g., CD40). Trem1 is associated with DAP12(TYROBP), a molecule frequently associated with activating receptors.

NCBI AND UNIPROT INFORMATION

NCBI GI #	81175033
NCBI GeneID	58217
UniProt Accession #	Q9JKE2; Q3TAL7
Molecular Weight	25,409 Da
NCBI Official Full Name	Triggering receptor expressed on myeloid cells 1
NCBI Official Synonym Full Names	triggering receptor expressed on myeloid cells 1
NCBI Official Symbol	Trem1
NCBI Protein Information	triggering receptor expressed on myeloid cells 1; triggering receptor expressed in monocytes 1
UniProt Protein Name	Triggering receptor expressed on myeloid cells 1
UniProt Gene Name	Trem1
UniProt Synonym Gene Names	TREM-1
UniProt Entry Name	TREM1_MOUSE

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://stage.aaabiotech.com/trem1-mouse-elisa-kits/trem-1/45761>