

Product datasheet for **EA200028**

Human TREM2 ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human TREM2 ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	3.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of Human sTREM2
Sensitivity:	25pg/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none">● Recombinant Human sTREM2 standard (200ng/ml) 0.1 mL● 100x Biotin conjugated sTREM2 Detection Antibody 0.12 mL● 100x SA-HRP Conjugate 0.12 mL● Assay Buffer 30 mL● Standard&Sample Diluent 30 mL● Wash Buffer Concentrate 20X 60 mL● TMB Substrate 12 mL● Stop Solution 12 mL● Plate Sealer 3 pieces



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Background:

Triggering receptor expressed on myeloid cells 2 (TREM2) is expressed on macrophages, immature monocyte-derived dendritic cells, osteoclasts, and microglia. In the liver, TREM2 is expressed by several cell types, including macrophages, that respond to injury. In the intestine, TREM2 is expressed by myeloid-derived dendritic cells and macrophage. Expression of TREM2 is limited to inflamed sections of intestine and contribute to IBD development. TREM2 has been shown to be associated with increased production of inflammatory cytokines and changes in the gut microbiota. TREM2 is also overexpressed in many tumor types and has anti-inflammatory activities. The TREM2 is a transmembrane protein that is made up of an extracellular region (also referred to as the ectodomain), the membrane-traversing segment, and an intracellular component. Part of the ectodomain of TREM2 can be processed by enzymes (ADAM10, ADAM17) and released as a soluble version, called soluble TREM2 (sTREM2). This protein fragment is released into the sera and cerebral spinal fluid (CSF). Levels of sTREM2 are increased in CSF of patients with Alzheimer's disease, and correlate with the CSF levels of disease biomarkers, such as t-tau and p-tau. It might serve as a biomarker for Alzheimer's disease and other neurodegenerative disorders.

Gene Symbol:

TREM2

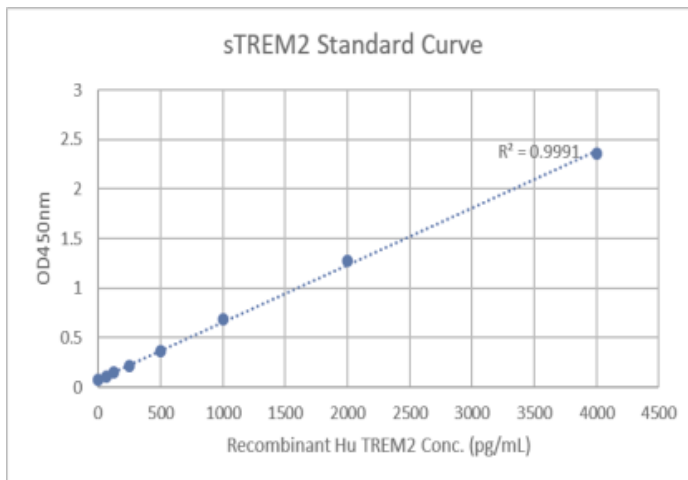
Gene ID:

54209

Standard Curve:

□

Data image of Human TREM2 ELISA Kit.

Product images:

Data image of Human TREM2 ELISA Kit.