



Human soluble OX40L (sOX40L) ELISA kit

Product Code	CSB-E12752h
Abbreviation	TNFSF4
Target Name	tumor necrosis factor (ligand) superfamily, member 4
Uniprot No.	P23510
Alias	CD134L, CD252, GP34, OX-40L, OX40L, TXGP1, CD134 ligand OX40 antigen ligand tax-transcriptionally activated glycoprotein 1 (34kD)
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Others
Gene Names	TNFSF4
Tag Info	quantitative
Protein Description	Sandwich

Description

The human sOX40L ELISA Kit is used to quantitatively measure sOX40L concentrations in human serum, plasma, or tissue homogenates. It performs well in important characteristics, including sensitivity, specificity, precision, recovery, linearity, and lot-to-lot consistency. This assay is based on the sandwich ELISA mechanism and enzyme-substrate chromogenic reaction. The solution color develops proportionally to the amount of sOX40L in the sample. And the intensity of the color can be measured at 450 nm via a microplate reader.

OX40L, also called TNFSF4, is a ligand for TNFRSF4/CD40 and is mainly expressed on activated antigen-presenting cells (APCs), such as activated B cells, dendritic cells (DCs), macrophages. The TNFRSF4-TNFSF4 interaction is involved in the control of the helper T-cell-mediated immunity at multiple points, including Th priming, effector cell function, and the generation and maintenance of memory. TNFRSF4-TNFSF4 signaling plays a dual role in T cell responses. It can boost Th1-mediated immune response and promote production and maintenance of Th2 but antagonizes Treg synthesis and Treg-mediated



inhibition.

Target Details

This protein is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptor TNFRSF4/OX4. It is found to be involved in T cell antigen-presenting cell (APC) interactions. In surface Ig- and CD40-stimulated B cells, this cytokine along with CD70 has been shown to provide CD28-independent costimulatory signals to T cells. This protein and its receptor are reported to directly mediate adhesion of activated T cells to vascular endothelial cells.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human sOX40L in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	106
	Range %	100-113
1:2	Average %	100
	Range %	95-105
1:4	Average %	89
	Range %	82-98
1:8	Average %	97
	Range %	92-102

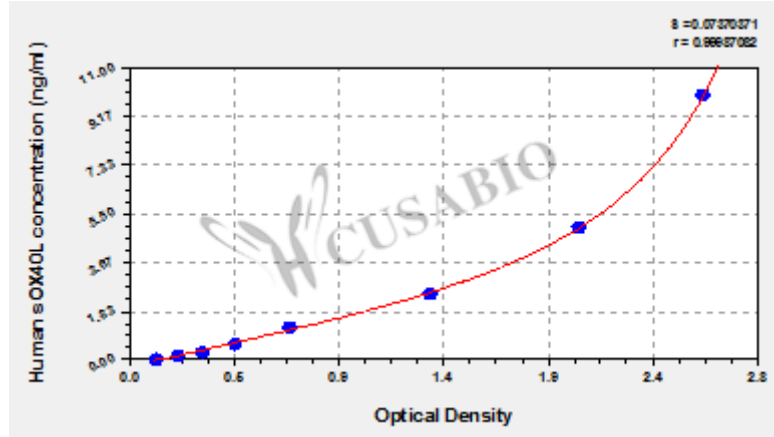
Recovery

The recovery of human sOX40L spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	93	87-98
EDTA plasma (n=4)	94	90-98

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
10	2.554	2.603	2.579	2.450
5	1.975	2.065	2.020	1.891
2.5	1.305	1.402	1.354	1.225
1.25	0.744	0.714	0.729	0.600
0.625	0.476	0.498	0.487	0.358
0.312	0.351	0.326	0.339	0.210
0.156	0.227	0.226	0.227	0.098
0	0.132	0.126	0.129	?
		?		

Msds

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