

Datasheet for ABIN1672725

FASL ELISA Kit[Go to Product page](#)**1** Image**4** Publications

Overview

Quantity:	96 tests
Target:	FASL
Binding Specificity:	AA 134-281
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human FASL
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: CHO Immunogen sequence: P134-L281
Specificity:	Expression system for standard: CHO Immunogen sequence: P134-L281
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<2pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

Target Details

Target:	FASL
Alternative Name:	FASLG (FASL Products)
Background:	<p>Background: Fas ligand(FasL or CD95L) is a type-II transmembrane protein that belongs to the tumor necrosis factor(TNF) family. Its binding with its receptor induces apoptosis. The human FASL gene consists of approximately 8 kb and is split into 4 exons. Fas ligand/receptor interactions play an important role in the regulation of the immune system and the progression of cancer. Fas ligand or FasL is a homotrimeric type II transmembrane protein. It signals through trimerization of FasR, which spans the membrane of the "target" cell. This trimerization usually leads to apoptosis, or cell death. Soluble Fas ligand is generated by cleaving membrane-bound FasL at a conserved cleavage site by the external matrix metalloproteinase MMP-7.</p> <p>Synonyms: FasL isoform ,FasL ,</p> <p>Full Gene Name: Fas ligand</p>
Gene ID:	14103
UniProt:	Q99PH8
Pathways:	Apoptosis , EGFR Signaling Pathway , Production of Molecular Mediator of Immune Response , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	human FASL ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for FASL has been precoated onto 96-well plates. Standards(CHO, P134-L281) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for FASL is added subsequently and then

Application Details

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 human FASL amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human FASL standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human FASL standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 108, Standard deviation: 5.62, CV(%): 5.2
- Sample 2: n=16, Mean(pg/ml): 257, Standard deviation: 12.59, CV(%): 4.9
- Sample 3: n=16, Mean(pg/ml): 619, Standard deviation: 36.52, CV(%): 5.9
- Sample 1: n=24, Mean(pg/ml): 112, Standard deviation: 9.74, CV(%): 8.7
- Sample 2: n=24, Mean(pg/ml): 249, Standard deviation: 22.66, CV(%): 9.1
- Sample 3: n=24, Mean(pg/ml): 623, Standard deviation: 44.86, CV(%): 7.2

Restrictions: For Research Use only

Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

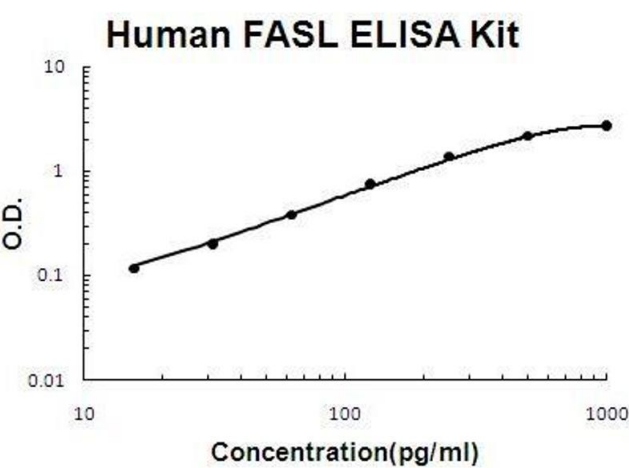
Storage: -20 °C, 4 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months

Publications

Product cited in: Gungor, Unal, Guclu, Gezer, Eyileten, Guzel, Altunoren, Erken, Oguz, Kocyigit, Yilmaz: "IL-33 and ST2 levels in chronic kidney disease: Associations with inflammation, vascular abnormalities, cardiovascular events, and survival." in: **PLoS ONE**, Vol. 12, Issue 6, pp. e0178939, (2017) ([PubMed](#)).



ELISA

Image 1. Human FASL PicoKine ELISA Kit standard curve