Product: Human Factor Related Apoptosis Ligand (FASL) ELISA Kit

Catalog NO.: NST-27004

Assay Type: **Sandwich**

Research Area: Apoptosis

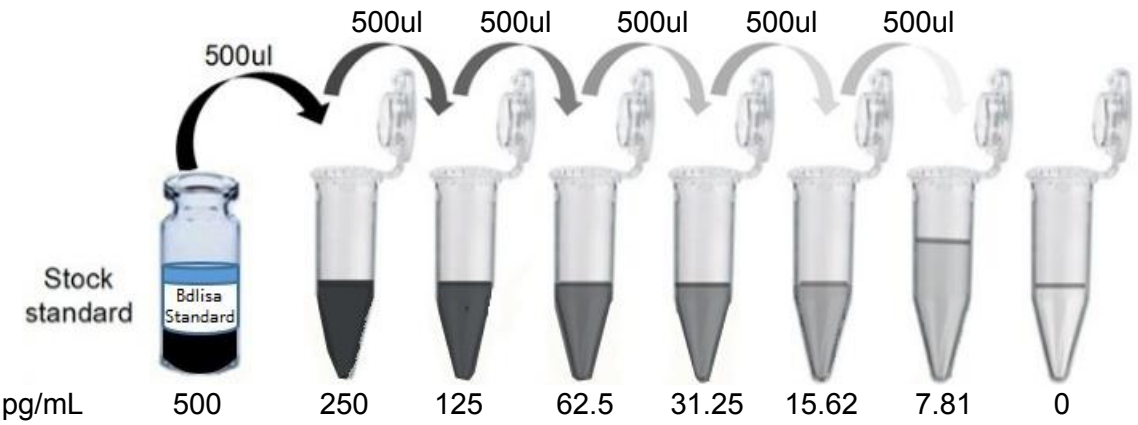
Synonyms: CD178; CD95L; CD95-L; FASLG; FASLG; APT1LG1; APT1-LG1; TNFSF6; Fas Antigen Ligand; TNF Superfamily Member 6; Tumor Necrosis Factor(ligand)Superfamily,Member 6

Detection Range: 7.81-500 pg/mL

Sensitivity: 3.85 pg/mL

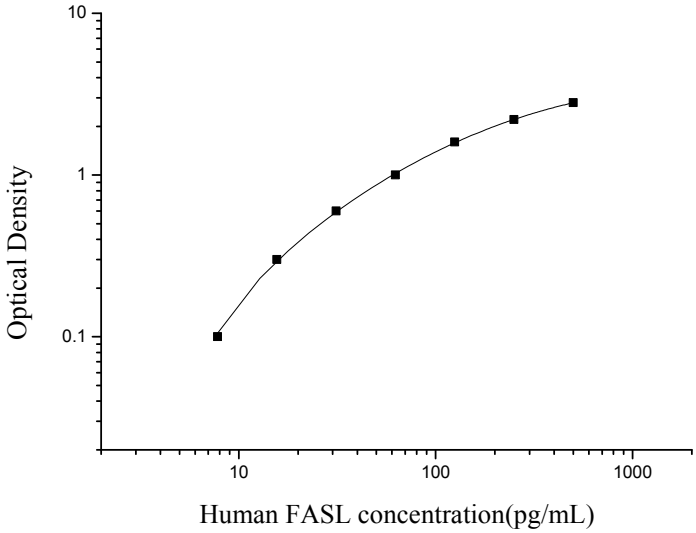
Standard Preparation

Reconstitute the **Standard** with 1.0 mL of **Universal Diluent**, keep for 10 minutes at room temperature, shake gently(not to foam). The concentration of the standard in the stock solution is 500 pg/mL. Please prepare 7 tubes containing 0.5 mL **Universal Diluent** and produce a double dilution series according to the picture shown below. Mix each tube thoroughly before the next transfer. Set up 7 points of diluted standard such as 500 pg/mL, 250 pg/mL, 125 pg/mL, 62.5 pg/mL, 31.25 pg/mL, 15.62 pg/mL, 7.81 pg/mL, and the last EP tube with **Universal Diluent** is the blank as 0 pg/mL.



Typical Data

As the OD values of the standard curve may vary according to the conditions of the objective assay, the experimenter should fit a standard curve for each test. Typical standard curve provided below is for reference only.



Specificity

This assay has high sensitivity and excellent specificity for detection of Human FASL. No significant cross-reactivity or interference between Human FASL and analogues is observed.

Note: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between Human FASL and all the analogues, therefore, cross reaction may still exist.

Recovery

Matrices listed below were spiked with certain level of recombinant Human FASL and the recovery rates were calculated by comparing the measured value to the expected amount of Human FASL in samples.

Matrix	Recovery range(%)	Average(%)
Serum(n=10)	81-107	94
EDTA plasma(n=10)	75-98	86
Heparin plasma(n=10)	77-103	90

Linearity

The linearity of the kit was assayed by testing samples spiked with appropriate concentration of Human FASL and their serial dilutions. The results were demonstrated by the percentage of calculated concentration to the expected.

Sample	1:2	1:4	1:8	1:16

Serum(n=10)	80-101%	79-106%	80-105%	79-103%
EDTA plasma(n=10)	81-95%	80-97%	82-100%	81-98%
Heparin plasma(n=10)	77-99%	80-100%	81-98%	77-97%

Precision

Intra-assay Precision (Precision within an assay): Three samples with low, middle and high level Human FASL were tested 20 times on one plate, respectively.

Inter-assay Precision (Precision between assays): Three samples with low, middle and high level Human FASL were tested on 3 different plates, 8 replicates in each plate.

CV (%) = SD/meanX100

Intra-Assay: CV< 10%

Inter-Assay: CV< 12%

Stability

The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 10% within the expiration date under appropriate storage condition.

Main components	37℃ for 7 days	-20℃ for 12 months
Average(%)	90	95-100

To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is strongly suggested that the same operator performs the whole assay from the beginning to the end.