

Datasheet for ABIN1672899

**FASL ELISA Kit**[Go to Product page](#)**1** Image**2** Publications

## Overview

Quantity:	96 tests
Target:	FASL
Binding Specificity:	AA 127-278
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat 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: NSO Immunogen sequence: Q127-L278
Specificity:	Expression system for standard: NSO Immunogen sequence: Q127-L278
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

Sensitivity:	<10pg/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 ( <a href="#">FASL Products</a> )
Background:	<p>Protein Function: Cytokine that binds to TNFRSF6/FAS, a receptor that transduces the apoptotic signal into cells. May be involved in cytotoxic T-cell mediated apoptosis and in T-cell development. TNFRSF6/FAS-mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen-stimulated suicide of mature T-cells, or both. Binding to the decoy receptor TNFRSF6B/DcR3 modulates its effects (By similarity). .</p> <p>Background: FAS Ligand(FASL) is a 40 kDa type II membrane protein belonging to the tumor necrosis factor family, which induces apoptosis by binding to its receptor, Fas. The human FasL gene consists of approximately 8.0 kb and is split into four exons. This gene consists of 281 amino acids with a calculated M(r) of 31,759 and was mapped on chromosome 1q23. It has an identity of 76.9 % at the amino acid sequence level with mouse FasL. The FAS and FASL system plays a key role in regulating apoptotic cell death and corruption of this signalling pathway has been shown to participate in immune escape and tumorigenesis. FAS and FASL triggered apoptosis pathway plays an important role in human carcinogenesis. This system may also play a role in modulating the genetic susceptibility of mouse strains to develop T-cell lymphoblastic lymphomas.</p> <p>Synonyms: Tumor necrosis factor ligand superfamily member 6,CD95 ligand,CD95-L,Fas antigen ligand,Fas ligand,FasL,CD178,Tumor necrosis factor ligand superfamily member 6, membrane form,Tumor necrosis factor ligand superfamily member 6, soluble form,Receptor-binding FasL ectodomain,Soluble Fas ligand,sFasL,ADAM10-processed FasL form,APL,FasL intracellular domain,FasL ICD,SPPL2A-processed FasL form,SPA,Faslg,Apt1Lg1, Cd95l, Fasl, Tnfsf6,</p> <p>Full Gene Name: Tumor necrosis factor ligand superfamily member 6</p> <p>Cellular Localisation: Cell membrane, Single-pass type II membrane protein . Cytoplasmic vesicle lumen . Lysosome lumen . Colocalizes with the SPPL2A protease at the cell membrane. Is internalized into multivesicular bodies of secretory lysosomes after phosphorylation by FGR</p>

## Target Details

	and monoubiquitination (By similarity)..
Gene ID:	25385
UniProt:	<a href="#">P36940</a>
Pathways:	<a href="#">Apoptosis</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>

## 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.
Comment:	Tissue Specificity: Expressed in activated splenocytes and thymocytes. Moderate or weak expression found in small intestines, kidney and lung.
Plate:	Pre-coated
Protocol:	rat FAS-L ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for FAS-L has been precoated onto 96-well plates. Standards(NSO, Q127-L278) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for FAS-L 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 rat FAS-L amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL rat FAS-L 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 rat 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 rat FAS-L standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none"><li>• Sample 1: n=16, Mean(pg/ml): 118, Standard deviation: 4.13, CV(%): 3.5</li><li>• Sample 2: n=16, Mean(pg/ml): 854, Standard deviation: 40.99, CV(%): 4.8</li><li>• Sample 3: n=16, Mean(pg/ml): 1319, Standard deviation: 71.23, CV(%): 5.4,</li><li>• Sample 1: n=24, Mean(pg/ml): 102, Standard deviation: 5.2, CV(%): 5.1</li><li>• Sample 2: n=24, Mean(pg/ml): 847, Standard deviation: 52.51, CV(%): 6.2</li><li>• Sample 3: n=24, Mean(pg/ml): 1423, Standard deviation: 103.9, CV(%): 7.3</li></ul>

Application Details

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

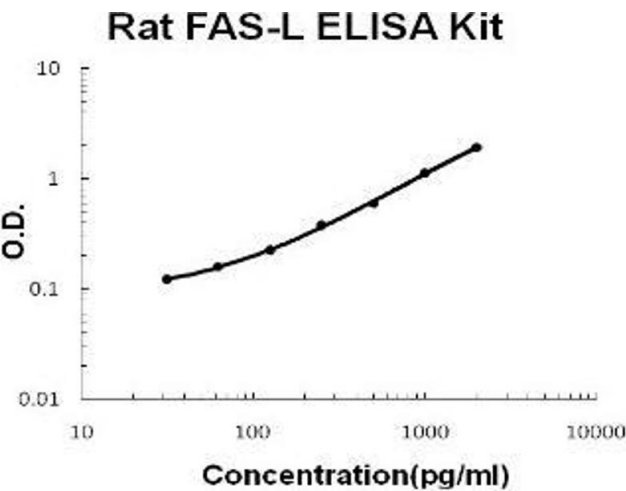
Expiry Date: 12 months

Publications

Product cited in: Jiang, Li, Zhou, Wang, Zhang, Wang: "Colistin-induced apoptosis in PC12 cells: involvement of the mitochondrial apoptotic and death receptor pathways." in: **International journal of molecular medicine**, Vol. 33, Issue 5, pp. 1298-304, (2014) ([PubMed](#)).

Xu, Liu, Wu, Gong, Zhou, Qiao: "Proapoptotic effect of metalloproteinase 9 secreted by trophoblasts on endothelial cells." in: **The journal of obstetrics and gynaecology research**, Vol. 37, Issue 3, pp. 187-94, (2011) ([PubMed](#)).

Images



ELISA

Image 1. Rat FAS-L PicoKine ELISA Kit standard curve