

Datasheet for ABIN1672726

FASL ELISA Kit



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Overview

Quantity:	96 tests
Target:	FASL
Binding Specificity:	AA 132-279
Reactivity:	Mouse
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 Mouse 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: P132-L279
Specificity:	Expression system for standard: NSO Immunogen sequence: P132-L279
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 (FASL Products)
Background:	<p>Protein Function: Receptor for TNFSF6/FASLG. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death- inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. FAS- mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen-stimulated suicide of mature T-cells, or both (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 receptor superfamily member 6,Apo-1 antigen,Apoptosis-mediating surface antigen FAS,FASLG receptor,CD95,Fas,Apt1, Tnfrsf6,</p> <p>Full Gene Name: Tumor necrosis factor receptor superfamily member 6</p> <p>Cellular Localisation: Membrane, Single-pass type I membrane protein.</p>
Gene ID:	14103
UniProt:	P25446
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.
Comment:	Sequence similarities: Contains 1 death domain. Tissue Specificity: Detected in various tissues including thymus, liver, lung, heart, and adult ovary.
Plate:	Pre-coated
Protocol:	mouse FAS-L ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for FAS-L has been precoated onto 96-well plates. Standards(NS0, P132-L279) 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 mouse 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 mouse 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 mouse 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 mouse FAS-L standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 108, Standard deviation: 9.288, CV(%): 8.6• Sample 2: n=16, Mean(pg/ml): 857, Standard deviation: 42.85, CV(%): 5• Sample 3: n=16, Mean(pg/ml): 1419, Standard deviation: 83.72, CV(%): 5.9,• Sample 1: n=24, Mean(pg/ml): 112, Standard deviation: 10.30, CV(%): 9.2• Sample 2: n=24, Mean(pg/ml): 849, Standard deviation: 51.79, CV(%): 6.1• Sample 3: n=24, Mean(pg/ml): 1523, Standard deviation: 114.2, CV(%): 7.5
Restrictions:	For Research Use only

Handling

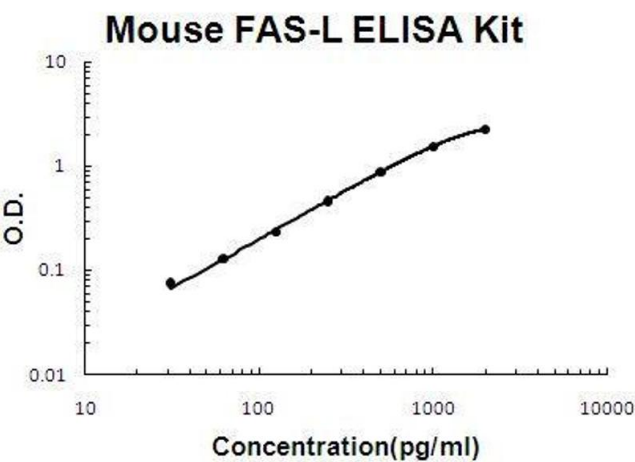
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C

Handling

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:	<p>Soni, Kaminski, Gangaraju, Adebiji: "Cisplatin-induced oxidative stress stimulates renal Fas ligand shedding." in: Renal failure, Vol. 40, Issue 1, pp. 314-322, (2018) (PubMed).</p> <p>Aziz, Cui, Das, Brown, Ardell, Febbraio, Pluskota, Han, Wu, Ballantyne, Smith, Cathcart, Yakubenko: "The Upregulation of Integrin $\alpha\text{D}\beta 2$ (CD11d/CD18) on Inflammatory Macrophages Promotes Macrophage Retention in Vascular Lesions and Development of Atherosclerosis." in: Journal of immunology (Baltimore, Md. : 1950), Vol. 198, Issue 12, pp. 4855-4867, (2017) (PubMed).</p> <p>Wu, Hu, Liu, Cao, Xu, Li, Li: "Nature and mechanisms of hepatocyte apoptosis induced by D-galactosamine/lipopolysaccharide challenge in mice." in: International journal of molecular medicine, Vol. 33, Issue 6, pp. 1498-506, (2014) (PubMed).</p> <p>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).</p> <p>Xiong, Lu, Zhao, Xu, Bao, Lin, Yang: "Therapy with FasL-gene-modified dendritic cells confers a protective microenvironment in murine pregnancy." in: Fertility and sterility, Vol. 93, Issue 8, pp. 2767-9, (2010) (PubMed).</p> <p>There are more publications referencing this product on: Product page</p>
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ELISA

Image 1. Mouse FASL PicoKine ELISA Kit standard curve