Datasheet for ABIN921055

FAS ELISA Kit

1 Image | 5 Publications

Go to Product page

Overview

Quantity:	96 tests
Target:	FAS
Binding Specificity:	AA 22-169
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 Soluble FAS
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: sf21 Immunogen sequence: Q22-R169
Specificity:	Expression system for standard: sf21 Immunogen sequence: Q22-R169
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<3pg/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:	FAS
Alternative Name:	FAS (FAS Products)
Background:	Background: Fas, also known as APO-1, CD95 and TNFRSF6, is a member of the nerve growth factor(NGF)/tumour necrosis factor(TNF) receptor superfamily and mediates apoptosis. The nucleotide sequence of the cDNAs reveales that the molecule coding for the Fas antigen determinant is a 319 amino acid polypeptide with a single transmembrane domain. The extracellular domain is rich in cysteine residue, and shows a similarity to that of human tumor necrosis factor receptors, human nerve growth factor receptor, and human B cell antigen CD40. The APO-1 antigen as defined by the mouse monoclonal antibody anti-APO-1 is previously found to be expressed on the cell surface of activated human T and B lymphocytes and a variety of malignant human lymphoid cell lines. The APO-1 antigen is found to be a membrane glycoprotein of 48- kDa. Fas antigen is expressed and functional on papillary thyroid cancer cells and this may have potential therapeutic significance. Fas can play a role as an inducer of both neurite growth in vitro and accelerates recovery after nerve injury in vivo. Synonyms: Tumor necrosis factor receptor superfamily member 6 ,Fas , Full Gene Name: Fas cell surface death receptor
Gene ID:	14102
UniProt:	Q8C350
Pathways:	p53 Signaling, Apoptosis, 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

Application Details

Protocol:	mouse FAS ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for FAS has been precoated onto 96-well plates. Standards(sf21, Q22-R169) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for FAS 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 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 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 supernatants, serum or plasma(heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse FAS standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 107, Standard deviation: 9.52, CV(%): 8.9 • Sample 2: n=16, Mean(pg/ml): 728, Standard deviation: 30.58, CV(%): 4.2 • Sample 3: n=16, Mean(pg/ml): 1407, Standard deviation: 54.87, CV(%): 3.9, • Sample 1: n=24, Mean(pg/ml): 116, Standard deviation: 10.56, CV(%): 9.1 • Sample 2: n=24, Mean(pg/ml): 739, Standard deviation: 40.65, CV(%): 5.5 • Sample 3: n=24, Mean(pg/ml): 1412, Standard deviation: 80.48, CV(%): 5.7
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:	Qin, Ma, Yang, Hu, Zhou, Fu, Tian, Liu, Xu, Shen: "A Triterpenoid Inhibited Hormone-Induced Adipocyte Differentiation and Alleviated Dexamethasone-Induced Insulin Resistance in 3T3-L1

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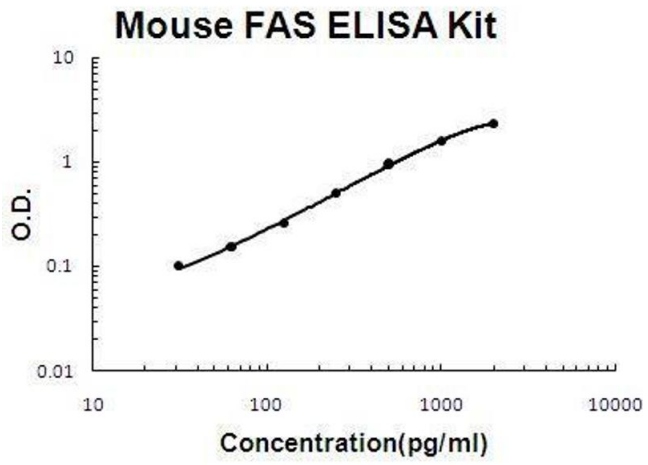
Li, Xu, Chu, Gao, Wang, Nie, Yang, Lv: "Molecular mechanism of inhibitory effects of CD59 gene on atherosclerosis in ApoE (-/-) mice." in: **Immunology letters**, Vol. 156, Issue 1-2, pp. 68-81, (2013) (PubMed).

Liu, Shan, Dong, Liu, Ma, Liu: "Combined early fluid resuscitation and hydrogen inhalation attenuates lung and intestine injury." in: **World journal of gastroenterology**, Vol. 19, Issue 4, pp. 492-502, (2013) (PubMed).

Images



ELISA

Image 1. Mouse FAS PicoKine ELISA Kit standard curve