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Datasheet for ABIN1672822

## FSTL3 ELISA Kit

### 1 Image

#### Overview

Quantity:	96 tests
Target:	FSTL3
Binding Specificity:	AA 27-263
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

#### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human FLRG/FSTL3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Urine, Milk
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: M27-V263
Specificity:	Expression system for standard: NSO Immunogen sequence: M27-V263
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

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Sensitivity: <10pg/mL

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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

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Target: FSTL3

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Alternative Name: FSTL3 ([FSTL3 Products](#))

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Background: Protein Function: Isoform 1 or the secreted form is a binding and antagonizing protein for members of the TGF-beta family, such as activin, BMP2 and MSTN. Inhibits activin A-, activin B-, BMP2- and MSDT-induced cellular signaling, more effective on activin A than on activin B. Involved in bone formation, inhibits osteoclast differentiation. Involved in hematopoiesis, involved in differentiation of hemopoietic progenitor cells, increases hematopoietic cell adhesion to fibronectin and seems to contribute to the adhesion of hematopoietic precursor cells to the bone marrow stroma. Isoform 2 or the nuclear form is probably involved in transcriptional regulation via interaction with MLLT10. .

Background: FSTL3(Follistatin-Like 3) also known as FLRG or FOLLISTATIN-RELATED GENE, is a member of the follistatin-module protein family, which is composed of extracellular matrix-associated glycoproteins thought to act in a paracrine manner to bind morphogens or growth/differentiation factors and regulate their activity during development. The FSTL3 gene extends over 7 kbp and contains 5 exons. The FSTL3 gene was localized to chromosome 19p13. This gene involved in hematopoiesis and in differentiation of hemopoietic progenitor cells, increases hematopoietic cell adhesion to fibronectin and seems to contribute to the adhesion of hematopoietic precursor cells to the bone marrow stroma. It may have a role in leukemogenesis.

Synonyms: Follistatin-related protein 3,Follistatin-like protein 3,Follistatin-related gene protein,FSTL3,FLRG,UNQ674/PRO1308,

Full Gene Name: Follistatin-related protein 3

Cellular Localisation: Isoform 1: Secreted.

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Gene ID: 10272

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UniProt: [O95633](#)

## Application Details

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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 2 follistatin-like domains. Tissue Specificity: Expressed in a wide range of tissues. .
Plate:	Pre-coated
Protocol:	human FLRG ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for FLRG has been precoated onto 96-well plates. Standards(NSO, M27-V263) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for FLRG 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 human FLRG amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human FLRG 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, plasma(heparin, EDTA), urine or human milk to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human FLRG standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none"><li>• Sample 1: n=16, Mean(ng/ml): 0.52, Standard deviation: 0.022, CV(%): 4.2</li><li>• Sample 2: n=16, Mean(ng/ml): 1.13, Standard deviation: 0.044, CV(%): 3.9</li><li>• Sample 3: n=16, Mean(ng/ml): 2.28, Standard deviation: 0.093, CV(%): 4.1,</li><li>• Sample 1: n=24, Mean(ng/ml): 0.57, Standard deviation: 0.043, CV(%): 7.5</li><li>• Sample 2: n=24, Mean(ng/ml): 1.24, Standard deviation: 0.084, CV(%): 6.8</li><li>• Sample 3: n=24, Mean(ng/ml): 2.36, Standard deviation: 0.175, CV(%): 7.4</li></ul>
Restrictions:	For Research Use only

## Handling

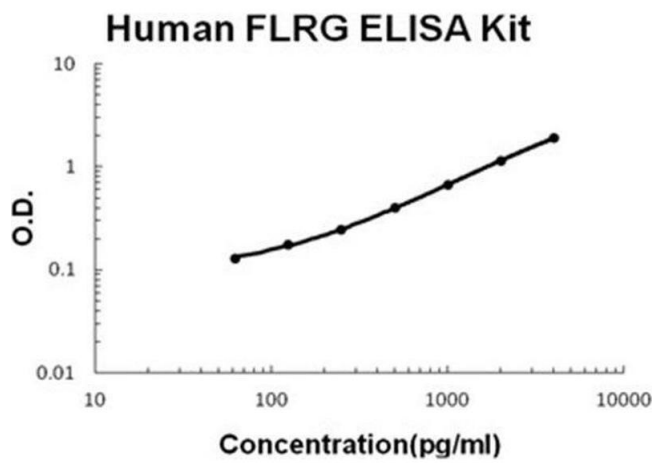
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Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Handling

Expiry Date: 12 months

Images



#### ELISA

**Image 1.** Human FLRG/FSTL3 PicoKine ELISA Kit standard curve