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Datasheet for ABIN1889291

## FLT3LG ELISA Kit

### 1 Image

#### Overview

Quantity:	96 tests
Target:	FLT3LG
Binding Specificity:	AA 27-185
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

#### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Flt-3ligand
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: T27-P185
Specificity:	Expression system for standard: sf21 Immunogen sequence: T27-P185
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

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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

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Target:	FLT3LG
Alternative Name:	FLT3LG ( <a href="#">FLT3LG Products</a> )
Background:	<p>Protein Function: Stimulates the proliferation of early hematopoietic cells by activating FLT3. Synergizes well with a number of other colony stimulating factors and interleukins.</p> <p>Background: Fms-related tyrosine kinase 3 ligand(FLT3LG), also known as Flt-3ligand or FL, is a protein which in humans is encoded by the FLT3LG gene. It is mapped to 19q13.3. Flt-3ligand is a hematopoietic four helical bundle cytokine. It is structurally homologous to stem cell factor(SCF) and colony stimulating factor 1(CSF-1). In synergy with other growth factors, Flt-3ligand stimulates the proliferation and differentiation of various blood cell progenitors. Besides that, Flt-3ligand can control the development of Dendritic cells(DCs) and is particularly important for plasmacytoid DCs and CD8-positive classical DCs and their CD103-positive tissue counterparts. Flt-3ligand also can enhance the response of stem and primitive progenitor cells to other growth factors to generate all myeloid lineages except erythroid cells.</p> <p>Synonyms: Fms-related tyrosine kinase 3 ligand,Flt3 ligand,Flt3L,SL cytokine,FLT3LG,</p> <p>Full Gene Name: Fms-related tyrosine kinase 3 ligand</p> <p>Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.</p>

Gene ID:	2323
UniProt:	<a href="#">P49771</a>
Pathways:	<a href="#">RTK Signaling</a>

## 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.
Plate:	Pre-coated
Protocol:	human Flt-3ligand ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

## Application Details

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assay technology. A monoclonal antibody from mouse specific for Flt-3ligand has been precoated onto 96-well plates. Standards(sf21, T27-P185) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Flt-3ligand 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 Flt-3ligand amount of sample captured in plate.

**Assay Procedure:** Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human Flt-3ligand 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 or plasma(heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human Flt-3ligand standard solution and each sample be measured in duplicate.

**Assay Precision:**

- Sample 1: n=16, Mean(pg/ml): 109, Standard deviation: 3.49, CV(%): 3.2
- Sample 2: n=16, Mean(pg/ml): 256, Standard deviation: 8.45, CV(%): 3.3
- Sample 3: n=16, Mean(pg/ml): 520, Standard deviation: 22.88, CV(%): 4.4,
- Sample 1: n=24, Mean(pg/ml): 112, Standard deviation: 10.64, CV(%): 9.5
- Sample 2: n=24, Mean(pg/ml): 245, Standard deviation: 18.38, CV(%): 7.5
- Sample 3: n=24, Mean(pg/ml): 518, Standard deviation: 41.96, CV(%): 8.1

**Restrictions:** For Research Use only

## Handling

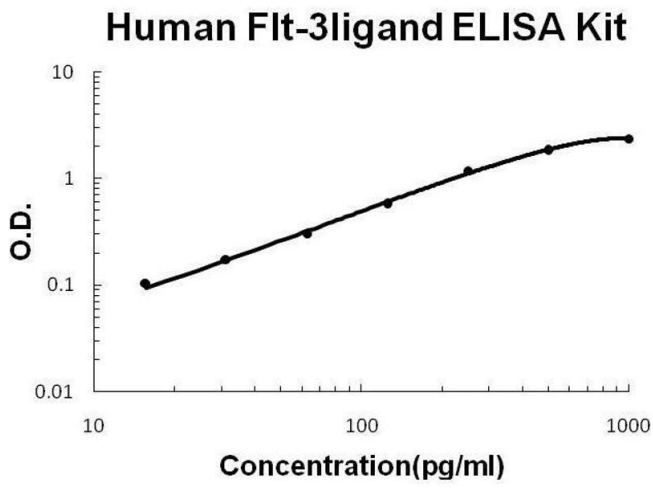
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**Handling Advice:** Avoid multiple freeze-thaw cycles.

**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

**Expiry Date:** 12 months



#### ELISA

**Image 1.** Human Flt-3ligand PicoKine ELISA Kit standard curve