

Datasheet for ABIN1889292
FLT3LG ELISA Kit



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Overview

Quantity: 96 tests

Target: FLT3LG

Binding Specificity: AA 27-188

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 Flt-3ligand

Brand: PicoKine™

Sample Type: Cell Culture Supernatant, Serum

Analytical Method: Quantitative

Detection Method: Colorimetric

Immunogen: Expression system for standard: NSO
Immunogen sequence: G27-R188

Specificity: Expression system for standard: NSO
Immunogen sequence: G27-R188

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:	FLT3LG
Alternative Name:	FLT3LG (FLT3LG Products)
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,Flt3l,</p> <p>Full Gene Name: Fms-related tyrosine kinase 3 ligand</p> <p>Cellular Localisation: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	14256
UniProt:	P49772
Pathways:	RTK Signaling

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
Protocol:	mouse Flt-3ligand ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

Application Details

assay technology. A monoclonal antibody from rat specific for Flt-3ligand has been precoated onto 96-well plates. Standards(NSO, G27-R188) 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 mouse Flt-3ligand 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 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 mouse cell culture supernates or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse Flt-3ligand standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 207, Standard deviation: 11.18, CV(%): 5.4
- Sample 2: n=16, Mean(pg/ml): 556, Standard deviation: 30.02, CV(%): 5.4
- Sample 3: n=16, Mean(pg/ml): 1324, Standard deviation: 59.58, CV(%): 4.5,
- Sample 1: n=24, Mean(pg/ml): 212, Standard deviation: 17.81, CV(%): 8.4
- Sample 2: n=24, Mean(pg/ml): 545, Standard deviation: 36.52, CV(%): 6.7
- Sample 3: n=24, Mean(pg/ml): 1318, Standard deviation: 86.99, CV(%): 6.6

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: Chen, Zhao, Wu, Zou, Luo, Li, Xie, Liang: "The role of RIP1 and RIP3 in the development of aplastic anemia induced by cyclophosphamide and busulphan in mice." in: **International journal of clinical and experimental pathology**, Vol. 7, Issue 12, pp. 8411-20, (2015) ([PubMed](#)).

Mouse Flt-3ligand ELISA Kit

ELISA

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

