Human FMS-like tyrosine kinase 3,Flt3 ELISA Kit

Product Code	CSB-E04556h
Abbreviation	FLT3
Target Name	fms-related tyrosine kinase 3
Uniprot No.	P36888
Alias	RP11-153M24.3, CD135, FLK2, STK1, CD135 antigen|FL cytokine receptor|FLT3 receptor tyrosine kinase|fetal liver kinase 2|growth factor receptor tyrosine kinase type III|stem cell tyrosine kinase 1|ty
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	FLT3
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human FLT3 ELISA Kit was designed for the quantitative measurement of Human FLT3 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL.
Target Details	This gene encodes a class III receptor tyrosine kinase that regulates hematopoiesis. The receptor consists of an extracellular domain composed of five immunoglobulin-like domains, one transmembrane region, and a cytoplasmic kinase domain split into two parts by a kinase-insert domain. The receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute

lymphoblastic leukemia.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human Flt3 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	90
	Range %	85-95
1:2	Average %	92
	Range %	88-96
1:4	Average %	87
	Range %	82-91
1:8	Average %	95
	Range %	90-100

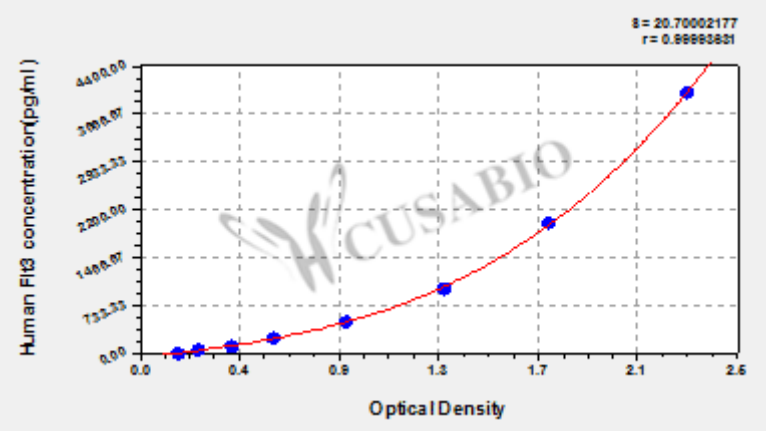
Recovery

The recovery of human Flt3 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	89	85-93
EDTA plasma (n=4)	103	98-110

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
4000	2.401	2.238	2.320	2.143
2000	1.685	1.796	1.741	1.564
1000	1.316	1.275	1.296	1.119
500	0.874	0.902	0.888	0.711
250	0.593	0.569	0.581	0.404
125	0.402	0.411	0.407	0.230
62.5	0.269	0.257	0.263	0.086
0	0.180	0.173	0.177	?

Msds

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