



Rat Vascular endothelial cell growth factor receptor 2, VEGFR-2/Flk-1 ELISA kit

Product Code	CSB-E07348r
Abbreviation	VEGFR-2/Flk-1
Protein Biological Process 1	Angiogenesis
Target Name	kinase insert domain receptor (a type III receptor tyrosine kinase)
Uniprot No.	O08775
Alias	CD309, FLK1, VEGFR, VEGFR2, fetal liver kinase-1 kinase insert domain receptor protein-tyrosine kinase receptor Flk-1 soluble VEGFR2 tyrosine kinase growth factor receptor vascular endothelial growth
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.56 ng/mL-100 ng/mL
Sensitivity	0.39 ng/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	Cancer
Gene Names	Kdr
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat VEGFR-2/Flk-1 ELISA Kit was designed for the quantitative measurement of Rat VEGFR-2/Flk-1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.56 ng/mL-100 ng/mL and the sensitivity is 0.39 ng/mL.
Target Details	Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine



kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin $\alpha V\beta 3$, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas.

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 rat VEGFR-2/Flk-1 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 %	103
	Range %	98-107
1:2	Average %	96
	Range %	91-100
1:4	Average %	90
	Range %	83-97
1:8	Average %	99
	Range %	93-105

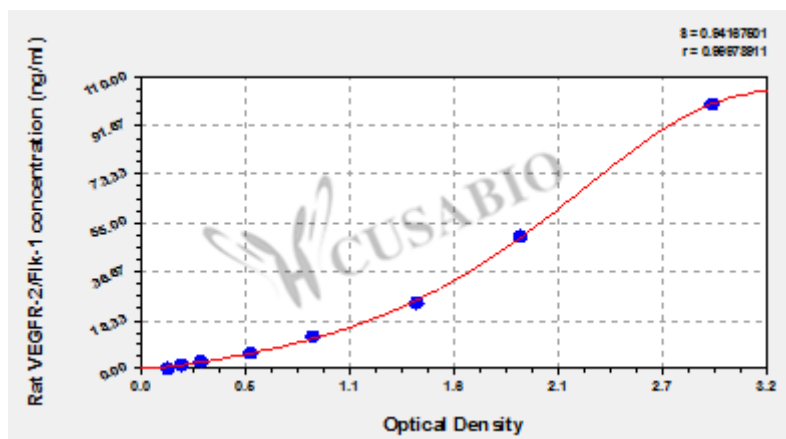
Recovery

The recovery of rat VEGFR-2/Flk-1 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)	107	101-113
EDTA plasma (n=4)	94	90-99

Typical

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



ng/ml	OD1	OD2	Average	Corrected
100	2.954	2.911	2.933	2.783
50	1.933	1.973	1.953	1.803
25	1.365	1.480	1.423	1.273
12.5	0.894	0.885	0.890	0.740
6.25	0.558	0.599	0.579	0.429
3.12	0.313	0.328	0.321	0.171
1.56	0.222	0.230	0.226	0.076
0	0.145	0.154	0.150	

Msds

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