



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

Product Code	CSB-E04763h
Abbreviation	VEGFR-2/Flk-1
Protein Biological Process 1	Cytokine
Target Name	kinase insert domain receptor (a type III receptor tyrosine kinase)
Uniprot No.	P35968
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	Homo sapiens (Human)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.39 ng/mL-25 ng/mL
Sensitivity	0.098 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	Cardiovascular
Gene Names	KDR
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human VEGFR-2/Flk-1 ELISA Kit was designed for the quantitative measurement of Human VEGFR-2/Flk-1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.39 ng/mL-25 ng/mL and the sensitivity is 0.098 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 α V β 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.

	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean(ng/ml)	3.014	3.293	3.125	3.135	3.221	3.150
SD	0.056	0.05	0.052	0.033	0.021	0.035
CV(%)	7.599	6.31	6.853	4.335	2.699	4.582

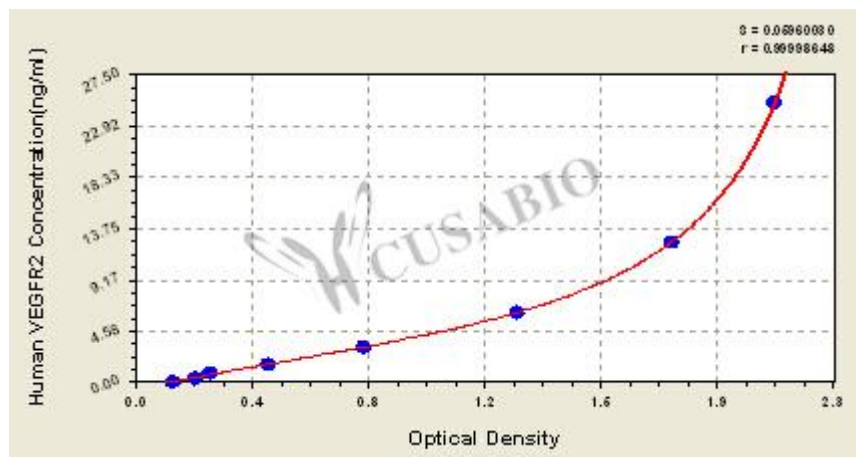
Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human VEGFR-2 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Human Serum(n=4)
1:1	Average %	91
	Range %	80-100
1:2	Average %	96
	Range %	91-110
1:4	Average %	90
	Range %	85-95
1:8	Average %	94
	Range %	90-102

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↕
0↕	0.130 ↕	0.132 ↕	0.131 ↕	↕
0.390↕	0.204 ↕	0.208 ↕	0.206 ↕	0.075 ↕
0.781↕	0.251 ↕	0.263 ↕	0.257 ↕	0.126 ↕
1.563↕	0.460 ↕	0.436 ↕	0.448 ↕	0.317 ↕
3.125↕	0.765 ↕	0.752 ↕	0.759 ↕	0.628 ↕
6.25↕	1.295 ↕	1.238 ↕	1.267 ↕	1.136 ↕
12.5↕	1.747 ↕	1.801 ↕	1.774 ↕	1.643 ↕
25↕	2.110 ↕	2.119 ↕	2.115 ↕	1.984 ↕

Msds

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