Human Fibroblast growth factor receptor 3(FGFR3) ELISA kit

Product Code	CSB-EL008646HU
Abbreviation	FGFR3
Protein Biological Process 1	Apoptosis/Autophagy
Target Name	fibroblast growth factor receptor 3
Uniprot No.	P22607
Alias	ACH, CD333, CEK2, HSFGFR3EX, JTK4, OTTHUMP00000149958|OTTHUMP00000149959|achondroplasia, thanatophoric dwarfism|hydroxyaryl-protein kinase|tyrosine kinase JTK4
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Apoptosis
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	Signal Transduction
Gene Names	FGFR3
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human FGFR3 ELISA Kit was designed for the quantitative measurement of Human FGFR3 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 member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. FGFR family members differ from one another in

their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. Three alternatively spliced transcript variants that encode different protein isoforms have been described.

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 FGFR3 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 %	87
	Range %	82-92
1:2	Average %	86
	Range %	83-89
1:4	Average %	95
	Range %	89-99
1:8	Average %	104
	Range %	97-108

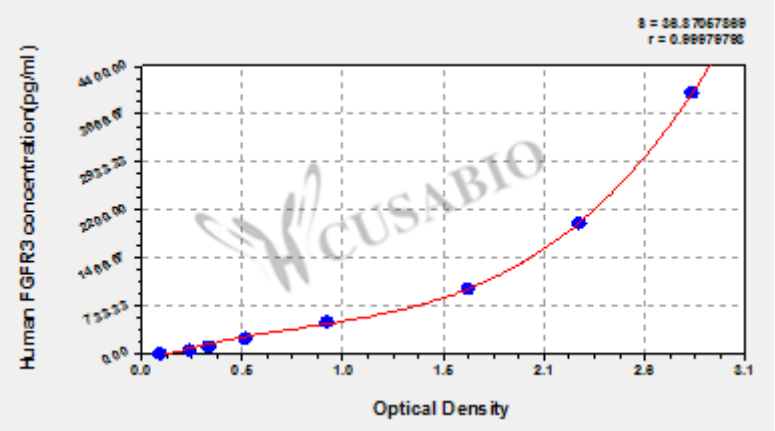
Recovery

The recovery of human FGFR3 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)	88	82-94
EDTA plasma (n=4)	86	80-92

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	2.745	2.868	2.807	2.703
2000	2.287	2.182	2.235	2.131
1000	1.716	1.616	1.666	1.562
500	0.943	0.963	0.953	0.849
250	0.547	0.522	0.535	0.431
125	0.344	0.361	0.353	0.249
62.5	0.246	0.257	0.252	0.148
0	0.103	0.105	0.104	

Msds

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