Rat Keratinocyte Growth Factor,KGF ELISA Kit

Product Code	CSB-E12905r
Abbreviation	FGF7
Target Name	fibroblast growth factor 7 (keratinocyte growth factor)
Uniprot No.	Q02195
Alias	HBGF-7, KGF, fibroblast growth factor 7|heparin-binding growth factor 7|keratinocyte growth factor
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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	Fgf7
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat FGF7 ELISA Kit was designed for the quantitative measurement of Rat FGF7 protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL .
Target Details	This protein is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis.
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 KGF 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 %	86
	Range %	81-95
1:2	Average %	95
	Range %	89-101
1:4	Average %	92
	Range %	87-96
1:8	Average %	86
	Range %	80-93

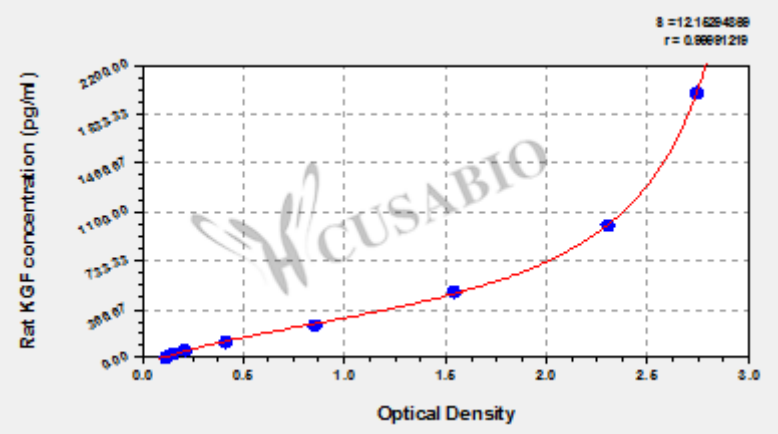
Recovery

The recovery of rat KGF 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)	100	94-105
EDTA plasma (n=4)	95	89-99

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
2000	2.730	2.775	2.753	2.621
1000	2.226	2.403	2.315	2.183
500	1.500	1.610	1.555	1.423
250	0.837	0.890	0.864	0.732
125	0.428	0.432	0.430	0.298
62.5	0.221	0.235	0.228	0.096
31.2	0.167	0.158	0.163	0.031
0	0.130	0.133	0.132	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E12905r.pdf","filename":"MSDS"}}