Rat Transforming Growth factor β2,TGF-β2 ELISA kit

Product Code	CSB-E12111r
Abbreviation	TGFB2
Target Name	transforming growth factor, beta 2
Uniprot No.	Q07257
Alias	MGC116892, TGF-beta2, transforming growth factor-beta2
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Tgfb2
Tag Info	quantitative
Protein Description	Sandwich

Description

The Rat Transforming Growth factor β2 (TGF-β2) ELISA kit is a high-quality tool for quantitative measurement of TGF-β2 levels in rat serum, plasma, and tissue homogenates.

The kit is designed to detect Transforming growth factor beta-2 proprotein, encoded by the Tgfb2 gene in Rattus norvegicus (Rat), which plays a key role in signal transduction pathways,cell growth, cell differentiation, apoptosis and cellular homeostasis.

With a wide detection range of 15.6 pg/mL-1000 pg/mL and a sensitivity of 3.9 pg/mL, this sandwich ELISA kit ensures accurate and precise measurements of TGF-β2 levels, even at low concentrations. The assay time is quick, ranging from 1-5 hours, with a sample volume of only 50-100ul.

The Rat Transforming Growth factor β2 (TGF-β2) ELISA kit is ideal for

researchers studying signal transduction in the context of various diseases and conditions. The kit is simple to use, and the results are easily readable at a detection wavelength of 450 nm.

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 TGF-β2 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 %	85
	Range %	81-89
1:2	Average %	95
	Range %	91-99
1:4	Average %	87
	Range %	82-90
1:8	Average %	95
	Range %	91-99

Recovery

The recovery of rat TGF-β2 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)	83	81-85
EDTA plasma (n=4)	96	91-99

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.
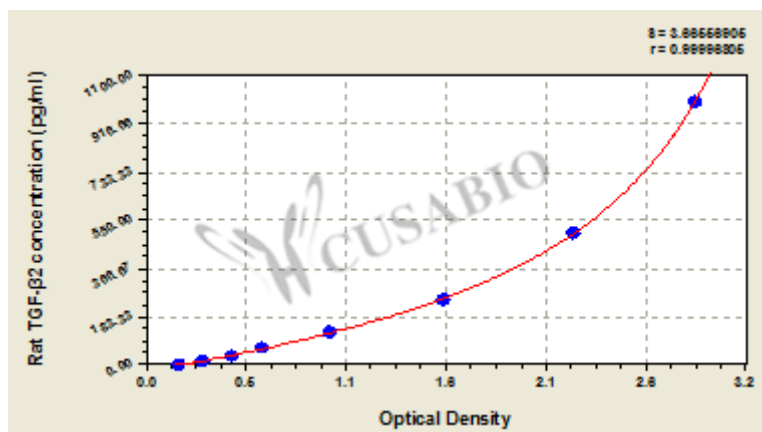
pg/ml	OD1	OD2	Average	Corrected
1000	2.869	2.897	2.883	2.691
500	2.231	2.267	2.249	2.057
250	1.544	1.598	1.571	1.379
125	0.969	0.987	0.978	0.786
62.5	0.638	0.609	0.624	0.432
31.2	0.452	0.472	0.462	0.270
15.6	0.307	0.321	0.314	0.122
0	0.191	0.193	0.192	

Msds

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