Rat glucose transporter 4(GLUT4) ELISA Kit

Product Code	CSB-E13908r
Abbreviation	SLC2A4
Protein Biological Process 1	Transport
Target Name	solute carrier family 2 (facilitated glucose transporter), member 4
Uniprot No.	P19357
Alias	GLUT4, glucose transporter 4|insulin-responsive glucose transporter type 4
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Sugar transport
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 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	Signal Transduction
Gene Names	Slc2a4
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat SLC2A4 ELISA Kit was designed for the quantitative measurement of Rat SLC2A4 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.
Target Details	This gene is a member of the solute carrier family 2 (facilitated glucose transporter) family and encodes a protein that functions as an insulin-regulated facilitative glucose transporter. In the absence of insulin, this integral membrane protein is sequestered within the cells of muscle and adipose tissue. Within minutes of insulin stimulation, the protein moves to the cell surface and begins to transport glucose across the cell membrane. Mutations in this gene have been associated with noninsulin-dependent diabetes mellitus (NIDDM).

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 GLUT4 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 %	80-92
1:2	Average %	98
	Range %	91-105
1:4	Average %	101
	Range %	92-110
1:8	Average %	93
	Range %	86-98

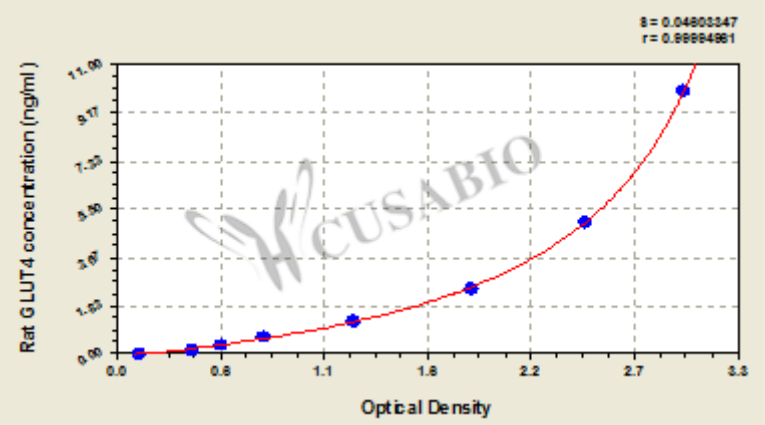
Recovery

The recovery of rat GLUT4 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)	95	89-98

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
10	2.958	3.000	2.979	2.850
5	2.461	2.460	2.461	2.332
2.5	1.852	1.876	1.864	1.735
1.25	1.234	1.261	1.248	1.119
0.625	0.753	0.798	0.776	0.647
0.312	0.531	0.578	0.555	0.426
0.156	0.396	0.412	0.404	0.275
0	0.132	0.126	0.129	?

Msds

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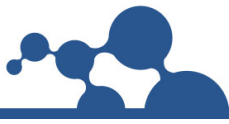

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