Rat Peroxisome Proliferator-activated receptor γ,PPAR-γ ELISA Kit

Product Code	CSB-E08624r
Abbreviation	PPARG
Protein Biological Process 1	Transcription/Transcription regulation
Target Name	peroxisome proliferator-activated receptor gamma
Uniprot No.	O88275
Alias	CIMT1, GLM1, NR1C3, PPARG1, PPARG2, PPARgamma, OTTHUMP00000185030|OTTHUMP00000185033|PPAR gamma|nuclear receptor subfamily 1 group C member 3|peroxisome proliferative activated receptor gamma|peroxi
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Transcription
Sample Types	serum, plasma, tissue homogenates
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	Metabolism
Gene Names	Pparg
Tag Info	quantitative
Protein Description	Sandwich
Description	
	This Rat PPARG ELISA Kit was designed for the quantitative measurement of Rat PPARG protein in serum, plasma, tissue homogenates. 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 encodes a member of the peroxisome proliferator-activated receptor (PPAR) subfamily of nuclear receptors. PPARs form heterodimers with retinoid

X receptors (RXRs) and these heterodimers regulate transcription of various genes. Three subtypes of PPARs are known: PPAR-alpha, PPAR-delta, and PPAR-gamma. This protein is PPAR-gamma and is a regulator of adipocyte differentiation. Additionally, PPAR-gamma has been implicated in the pathology of numerous diseases including obesity, diabetes, atherosclerosis and cancer. Alternatively spliced transcript variants that encode different 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 rat PPAR-γ 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 %	97
	Range %	92-103
1:2	Average %	90
	Range %	85-94
1:4	Average %	104
	Range %	100-109
1:8	Average %	84
	Range %	80-88

Recovery

The recovery of rat PPAR-γ 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)	89	85-95
EDTA plasma (n=4)	98	93-104

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.
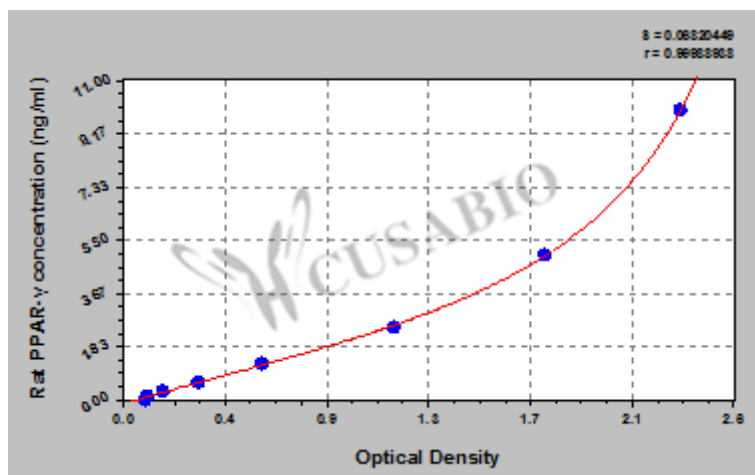
ng/ml	OD1	OD2	Average	Corrected
10	2.371	2.303	2.337	2.239
5	1.712	1.826	1.769	1.671
2.5	1.157	1.114	1.136	1.038
1.25	0.604	0.576	0.590	0.492
0.625	0.312	0.327	0.320	0.222
0.312	0.179	0.169	0.174	0.076
0.156	0.115	0.109	0.112	0.014
0	0.094	0.101	0.098	

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E08624r.pdf","filename":"MSDS"}}