Mouse Peroxisome proliferator-activated receptor gamma coactivator 1-beta (PPARGC1B) ELISA Kit

Catalog No: #EK11430

Package Size: #EK11430-1 48T #EK11430-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Peroxisome proliferator-activated receptor gamma coactivator 1-beta (PPARGC1B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ERRL1; PERC; PGC-1(beta); PGC1B; PGC-1-related estrogen receptor alpha coactivator|peroxisome proliferative activated receptor; gamma; coactivator 1; beta
Accession No.	Q8VHJ7
Uniprot	Q8VHJ7
GeneID	170826;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PPARGC1B in samples. An antibody specific for PPARGC1B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPPARGC1B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PPARGC1B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PPARGC1B bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PPARgC1b stimulates the activity of several transcription factors and nuclear receptors, including estrogen receptor alpha, nuclear respiratory factor 1, and glucocorticoid receptor. The encoded protein may be involved in fat oxidation, non-oxidative glucose metabolism, and the regulation of energy expenditure. This protein is downregulated in prediabetic and type 2 diabetes mellitus patients. Certain allelic variations in this gene increase the risk of the development of obesity.

Ppargc1b encodes a predicted 1,014-amino acid protein, and human and mouse PPARGC1B share 70% amino acid sequence identity. Ppargc1b contains 3 N-terminal LXXLL motifs, 2 glutamic/aspartic acid-rich acidic domains, a binding site for host cell factor (HCF1), and a C-terminal RNA recognition motif.

Note: This product is for in vitro research use only