

# Mouse Cytochrome b-c1 complex subunit 2, mitochondrial (UQCRC2) ELISA Kit



Catalog No: #EK5932

Orders: order@signalwayantibody.com

Package Size: #EK5932-1 48T #EK5932-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Cytochrome b-c1 complex subunit 2, mitochondrial (UQCRC2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	QCR2; UQCR2;
Accession No.	Q9DB77
Uniprot	Q9DB77
GeneID	67003;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.061 ng/mL

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 UQCRC2 in samples. An antibody specific for UQCRC2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyUQCRC2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UQCRC2 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 UQCRC2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The amount of PPARG, PPARG coactivator-1-alpha (PPARGC1A), ubiquinol-cytochrome c oxidoreductase core 2 subunit (UQCRC2), cytochrome c oxidase subunit I (MTCO1), uncoupling protein-2 (UCP2), and ATP synthase H(+)-transporting mitochondrial F1 complex (F1-ATP synthase) were markedly reduced in the low capacity runner rats in comparison with the high capacity runners.

The uniform decline in these proteins was consistent with the hypothesis that reduced aerobic metabolism plays a causal role in the development of the differences between the low capacity runner and high capacity runner rats. impairment of mitochondrial function may link reduced fitness to cardiovascular and metabolic disease.

Organism species: Homo sapiens (Human)

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Note: This product is for in vitro research use only