

Mouse Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial (SDHB) ELISA Kit

Catalog No: #EK7417

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Package Size: #EK7417-1 48T #EK7417-2 96T

Description

Product Name	Mouse Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial (SDHB) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	FLJ92337; IP; PGL4; SDH; SDH1; SDH2; SDHIP;
Accession No.	Q9CQA3
Uniprot	Q9CQA3
GeneID	67680;
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:0.053 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 SDHB in samples. An antibody specific for SDHB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySDHB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SDHB 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 SDHB bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Complex II in mitochondria, of which succinate dehydrogenase (EC 1.3.99.1) is a component, has 4 subunits. In order of decreasing molecular mass, they are the flavoprotein (SDHA), the iron sulfur protein (SDHB), and the 2 integral membrane proteins, SDHC and SDHD.

Kita et al. (1990) cloned and sequenced the iron sulfur protein subunit. A clone was isolated from a human liver cDNA library. The open reading frame encodes a 252-amino acid protein. The amino acid sequence showed approximately 94% homology with that of bovine heart. Au et al. (1995) described the complete genomic clone for the gene encoding the iron sulfur protein subunit.

Note: This product is for in vitro research use only