

Mouse Succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial (SDHD) ELISA Kit

Catalog No: #EK7415

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Package Size: #EK7415-1 48T #EK7415-2 96T

Description

Product Name	Mouse Succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial (SDHD) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	CBT1; PGL; PGL1; SDH4; succinate dehydrogenase complex; subunit D succinate dehydrogenase ubiquinone cytochrome B small subunit
Accession No.	Q9CXV1
Uniprot	Q9CXV1
GeneID	66925;
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:0.156-10 ng/mL

Sensitivity:0.066 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 SDHD in samples. An antibody specific for SDHD has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySDHD present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SDHD 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 SDHD bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:SDHD, which stands for succinate dehydrogenase complex subunit D, is one of the two transmembrane subunits of the four-subunit succinate dehydrogenase protein complex that resides in the inner mitochondrial membrane. It also refers to the gene that codes for this protein.

Germline mutations in SDHD were first linked to hereditary paraganglioma in 2000. Since then, it has been shown that mutations in SDHB and to a lesser degree SDHC can cause paranglioma as well familial pheochromocytoma. Notably, the tumor spectrum is different for the different mutations.

SDHB mutations often lead to metastatic disease that is extra-adrenal, while SDHD mutation related tumors are more typically benign, originating in the head and neck.

Note: This product is for in vitro research use only