Bovine Cytochrome b (MT-CYB) ELISA Kit

Catalog No: #EK11503

Package Size: #EK11503-1 48T #EK11503-2 96T

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

Description

Product Name	Bovine Cytochrome b (MT-CYB) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	MTCYB;
Accession No.	P00157
Uniprot	P00157
GeneID	3283889;
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:0.053 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 MT-CYB in samples. An antibody specific for MT-CYB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMT-CYB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MT-CYB 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 MT-CYB bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Mutations in the mitochondrial DNA cytochrome b gene (MTCYB) have been commonly associated with isolated mitochondrial myopathy and exercise intolerance, rarely with multisystem disorders, and only once with a parkinsonism/mitochondrial encephalomyopathy, lactic acidosis, and strokelike episodes (MELAS) overlap syndrome. Defects in MT-CYB are a rare cause of mitochondrial dysfunction underlying different myopathies. Defects in MTCYB are also found in cases of exercise intolerance accompanied by deafness, mental retardation, retinitis pigmentosa, cataract, growth retardation, epilepsy (multisystem disorder). Defects in MT-CYB are the cause of cardiomyopathy infantile histiocytoid (CMIH). Defects in MT-CYB contribute to Leber hereditary optic neuropathy (LHON).

Note: This product is for in vitro research use only