

# Human Serine beta-lactamase-like protein LACTB, mitochondrial (LACTB) ELISA Kit

Catalog No: #EK10164

Orders: order@signalwayantibody.com

Package Size: #EK10164-1 48T #EK10164-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Serine beta-lactamase-like protein LACTB, mitochondrial (LACTB) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ14902; G24; MRPL56; mitochondrial 39S ribosomal protein L56 mitochondrial ribosomal protein L56 serine beta lactamase-like protein LACTB
Accession No.	P83111
Uniprot	P83111
GeneID	114294;
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:0.312-20 ng/mL

Sensitivity:0.122 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 LACTB in samples. An antibody specific for LACTB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLACTB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LACTB 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 LACTB bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**LACTB encodes a protein from the large 39S subunit of the mitochondrial ribosome. LACTB has some sequence similarity to prokaryotic beta-lactamases but most of the residues that are responsible for the beta-lactamase activity are not conserved between the two proteins.The deduced 551-amino acid Lactb protein contains an N-terminal transmembrane domain and an alpha/beta-hydrolase fold catalytic site. LACTB, which encodes a predicted 549-amino acid protein that shares 90% amino acid identity with mouse Lactb. Northern blot analysis of mouse tissues detected expression at high levels in liver, heart, and skeletal muscle, with lower levels in kidney, testis, brain, lung, and spleen. Northern blot analysis of human tissues detected a 2.3-kb transcript expressed at high levels in heart and skeletal muscle.

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Note: This product is for in vitro research use only