

# Mouse Peptidyl-tRNA hydrolase 2, mitochondrial (PTRH2) ELISA Kit

Catalog No: #EK7947

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

Package Size: #EK7947-1 48T #EK7947-2 96T

## Description

Product Name	Mouse Peptidyl-tRNA hydrolase 2, mitochondrial (PTRH2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	BIT1; CGI-147; FLJ32471; PTH2; Bcl-2 inhibitor of transcription
Accession No.	Q8R2Y8
Uniprot	Q8R2Y8
GeneID	217057;
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:Request Information

Sensitivity:Request Information

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 PTRH2 in samples. An antibody specific for PTRH2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTRH2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTRH2 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 PTRH2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Loss of cell attachment to the extracellular matrix causes apoptosis, a process known as anoikis. BCL2 is an antiapoptotic protein that can protect cells against anoikis. BIT1 is evolutionarily conserved from bacteria to human. It contains an N-terminal mitochondria localization sequence and a C-terminal UPF0099 domain. Northern blot analysis detected a 1-kb BIT1 transcript expressed prominently in testis, prostate, skeletal muscle, and liver, with lower expression in heart, spleen, placenta, and colon. No significant expression was detected in thymus or peripheral leukocytes. Human embryonic kidney cells showed only trace expression of BIT1. Immunostaining localized endogenous BIT1 to the mitochondria of HeLa cells, and immunoblot analysis revealed a 20-kD doublet in HeLa cell mitochondrial extracts.

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Note: This product is for in vitro research use only