Mouse Probable prolyl-tRNA synthetase, mitochondrial (PARS2) ELISA Kit

Catalog No: #EK11477

Package Size: #EK11477-1 48T #EK11477-2 96T

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

Description

Product Name	Mouse Probable prolyl-tRNA synthetase, mitochondrial (PARS2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DKFZp727A071; MGC14416; MGC19467; MT-PRORS; proline tRNA ligase 2; mitochondrial (putative)|prolyl-tRNA synthetase (mitochondrial)(putative)|prolyl-tRNA synthetase; mitochondrial (putative)
Accession No.	Q8CFI5
Uniprot	Q8CFI5
GeneID	230577;
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:0.057 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 PARS2 in samples. An antibody specific for PARS2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPARS2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PARS2 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 PARS2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:By searching a database for tRNA synthetases, Bonnefond et al. (2005) identified PARS2, which they called MT-PRORS. The deduced 475-amino acid protein has a 47-amino acid mitochondrial targeting signal, resulting in a mature protein of 428 amino acids. PARS2 is a class II amino acid tRNA synthetase, with a C-terminal active-site domain linked to an N-terminal anticodon-binding domain by a short hinge. PARS2 shares no significant similarity with its cytosolic counterpart, EPRS.
Bonnefond et al. (2005) determined that the PARS2 gene contains 1 exon and spans 1.4 kb. By genomic sequence analysis, Bonnefond et al. (2005) mapped the PARS2 gene to chromosome 1.

Note: This product is for in vitro research use only