Human Anti-Glycyl tRNA Synthetase-antibody (GARS-Ab) ELISA Kit

Catalog No: #EK11715

Package Size: #EK11715-1 48T #EK11715-2 96T

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Description

Product Name	Human Anti-Glycyl tRNA Synthetase-antibody (GARS-Ab) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CMT2D; CMT2-D; DSMAV; GlyRS; SMAD1; EJ; Charcot-Marie-Tooth Neuropathy 2D; Glycine tRNA Ligase
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:15.6-1000 pg/mL

Sensitivity:6.6 pg/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 GARS-Ab in samples. An antibody specific for GARS-Ab has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGARS-Ab present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GARS-Ab 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 GARS-Ab bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Glycyl-tRNA synthetase isone of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha)2 dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis.Defects in GARS are the cause of distal spinal muscular atrophy type V (DSMA-V). DSMA-V is an autosomal dominant distal hereditary motor neuropathy (dHMN) with a phenotype similar to CMTD2. The main characteristic that distinguishes these disorders is the less severe distal sensory involvement in DSMA-V patients.Defects in GARS are the cause of Charcot-Marie-Tooth disease type 2D (CMT2D)

Note: This product is for in vitro research use only