

Human O-phosphoseryl-tRNA (SEPSECS) ELISA Kit

Catalog No: #EK7390



Package Size: #EK7390-1 48T #EK7390-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Human O-phosphoseryl-tRNA (SEPSECS) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp434B1417; LP; MGC161491; SLA; SLA/LP; soluble liver antigen/liver pancreas antigen
Accession No.	Q9HD40
Uniprot	Q9HD40
GeneID	51091;
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:31.25-2000 pg/mL

Sensitivity:15.8 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: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate SEPSECS in samples. An antibody specific for SEPSECS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SEPSECS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEPSECS 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 SEPSECS bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: Autoantibodies to soluble liver antigen (SLA) and to liver and pancreas antigen (LP) occur in about 30% of all patients with autoimmune hepatitis.

The 21st amino acid, selenocysteine (sec), is distinct from other amino acids because it lacks its own tRNA synthetase and is the only amino acid synthesized on its cognate tRNA. Synthesis of sec begins with acylation of tRNA(sec) (TRSP) by seryl-tRNA synthetase (SARS) to give ser-tRNA(sec), which is subsequently phosphorylated by O-phosphoseryl-tRNA kinase (PSTK) to give O-phosphoseryl-tRNA(sec). SEPSECS catalyzes the final step of sec synthesis by converting O-phosphoseryl-tRNA(sec) to selenocysteinyl-tRNA(sec) using selenophosphate as the selenium donor.

Note: This product is for in vitro research use only