

Rat Thymidylate synthase (TYMS) ELISA Kit

Catalog No: #EK5959



Package Size: #EK5959-1 48T #EK5959-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Rat Thymidylate synthase (TYMS) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	HST422; MGC88736; TMS; TS; TSase thymidylate synthase
Accession No.	P45352
Uniprot	P45352
GeneID	29261;
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:78.1-5000 pg/mL

Sensitivity:38 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 TYMS in samples. An antibody specific for TYMS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTYMS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TYMS 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 TYMS bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Tyrosinase (EC 1.14.18.1) catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. Kwon et al. screened a lambda-gt11 human melanocyte cDNA library with antibodies against hamster tyrosinase to isolate a clone for human tyrosinase. The deduced 548-amino acid protein has a molecular mass of 62,610 Da and contains glycosylation sites and histidine-rich sites that could be used for copper binding.

OCA1 is the gene associated with albinism, an autosomal recessive disorder. Albinism occurs when something causes the OCA1 gene to function improperly. The locus of gene OCA1 may be written "11q1.4-q2.1", meaning it is on the long arm of chromosome 11, somewhere in the range of sub-band 4 of band 1, and sub-band 1 of band 2.

Note: This product is for in vitro research use only