

Mouse Lamina-associated polypeptide 2, isoform alpha (TMPO) ELISA Kit

Catalog No: #EK6320

Orders: order@signalwayantibody.com

Package Size: #EK6320-1 48T #EK6320-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Mouse Lamina-associated polypeptide 2, isoform alpha (TMPO) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	CMD1T; LAP2; LEMD4; MGC61508; PRO0868; TP; LEM domain containing 4 lamina-associated polypeptide 2
Accession No.	Q61033
Uniprot	Q61033
GeneID	21917;
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:7.81-500 pg/mL

Sensitivity:12.9 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 TMPO in samples. An antibody specific for TMPO has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMPO present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMPO 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 TMPO bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Thymopoietin is a protein involved in the induction of CD90 in the thymus. The thymopoietin (TMPO) gene encodes three alternatively spliced mRNAs encoding proteins of 75 kDa (alpha), 51 kDa (beta) and 39 kDa (gamma) which are ubiquitously expressed in all cells. The human TMPO gene maps to chromosome band 12q22 and consists of eight exons. TMPO alpha is present diffusely expressed with the cell nucleus while TMPO beta and gamma are localized to the nuclear membrane. TMPO beta is a human homolog of the murine protein LAP2 (lamina-associated polypeptide 2). LAP2 plays a role in the regulation of nuclear architecture by binding lamin B1 and chromosomes. This interaction is regulated by phosphorylation during mitosis.

Note: This product is for in vitro research use only