

Human Thymosin beta-4, Y-chromosomal (TMSB4Y) ELISA Kit



Catalog No: #EK11358

Orders: order@signalwayantibody.com

Package Size: #EK11358-1 48T #EK11358-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Thymosin beta-4, Y-chromosomal (TMSB4Y) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC26307; TB4Y; thymosin beta-4; Y isoform thymosin; beta 4; Y chromosome
Accession No.	O14604
Uniprot	O14604
GeneID	9087;
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:123.46-10000 ng/mL

Sensitivity:42.2 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 TMSB4Y in samples. An antibody specific for TMSB4Y has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMSB4Y present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMSB4Y 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 TMSB4Y bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Lahn and Page (1997) isolated testis cDNAs encoding TB4Y, a Y-linked TB4X homolog. They identified TB4Y as 1 of 5 NRY genes that were expressed in many tissues and have homologs on the X chromosome that escape X inactivation.

The antigen, an 11-mer peptide (EVLLRPGLHFR), was encoded by a polymorphic region 405 bp upstream of the initiation codon of TMSB4Y. CTL precursor frequency analysis showed that approximately 25% of the total donor CTL responses in the patient 50 days after transplant were directed at this epitope, and the precursor was detectable almost 2 years after transplant. RT-PCR analysis detected wide expression of TMSB4Y mRNA in normal tissues, including hematopoietic cells, and TMSB4Y was also expressed in some leukemic cells.

Note: This product is for in vitro research use only