Human Piwi-like protein 1 (PIWIL1) ELISA Kit

Catalog No: #EK8492

Package Size: #EK8492-1 48T #EK8492-2 96T

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Description

Product Name	Human Piwi-like protein 1 (PIWIL1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HIWI; MIWI; PIWI; piwi homolog|piwi-like 1
Accession No.	Q96J94
Uniprot	Q96J94
GeneID	9271;
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:0.5-20 ng/mL

Sensitivity:0.2 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 PIWIL1 in samples. An antibody specific for PIWIL1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIWIL1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIWIL1 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 PIWIL1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PIWIL1 encodes a member of the PIWI subfamily of Argonaute proteins, evolutionarily conserved proteins containing both PAZ and Piwi motifs that play important roles in stem cell self-renewal, RNA silencing, and translational regulation in diverse organisms. The encoded protein may play a role as an intrinsic regulator of the self-renewal capacity of germline and hematopoietic stem cells.

Miwi associated with both piRNAs and mRNAs in cytosolic ribonucleoprotein and polysome fractions of mouse testicular extract. As polysomes increased in early spermiogenesis, Miwi levels increased in polysome fractions. Moreover, Miwi associated with the mRNA cap-binding complex.

Note: This product is for in vitro research use only