

Human Protein NPAT (NPAT) ELISA Kit

Catalog No: #EK11488



Package Size: #EK11488-1 48T #EK11488-2 96T

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Description

Product Name	Human Protein NPAT (NPAT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	E14; E14 nuclear protein; ataxia-telangiectasia locus
Accession No.	Q14207
Uniprot	Q14207
GeneID	4863;
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:0.312-20 ng/mL

Sensitivity:0.113 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 NPAT in samples. An antibody specific for NPAT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyNPAT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NPAT 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 NPAT bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**NPAT lies only 0.5 kb from the 5-prime end of the ATM gene and is transcribed in the opposite direction as ATM.NPAT encodes a 1,427-amino acid protein containing nuclear localization signals and target sites for phosphorylation by cyclin-dependent protein kinases associated with E2F. NPAT has a calculated molecular mass of 154,300 Da. It is relatively serine and threonine rich. The mRNA of NPAT was detected in all human tissues examined and its genomic sequence was strongly conserved through eukaryotes, suggesting that the NPAT gene may be essential for cell maintenance, i.e., a housekeeping gene. The promoter region may be shared by ATM and NPAT and that each gene may influence the expression of the other.

Note: This product is for in vitro research use only