

Rat Pre-mRNA-processing factor 19 (PRPF19) ELISA Kit



Catalog No: #EK11406

Orders: order@signalwayantibody.com

Package Size: #EK11406-1 48T #EK11406-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat Pre-mRNA-processing factor 19 (PRPF19) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	NMP200; PRP19; PSO4; SNEV; UBOX4; hPSO4; PRP19/PSO4 homolog PRP19/PSO4 pre-mRNA processing factor 19 homolog nuclear matrix protein NMP200 related to splicing factor PRP19
Accession No.	Q9JMJ4
Uniprot	Q9JMJ4
GeneID	246216;
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:Request Information

Sensitivity:Request Information

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 PRPF19 in samples. An antibody specific for PRPF19 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRPF19 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRPF19 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 PRPF19 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PSO4 is the human homolog of yeast Pso4, a gene essential for cell survival and DNA repair . PSO4 shares 38% amino acid identity with *S. cerevisiae* Pso4. SDS-PAGE indicated that PSO4 has an apparent molecular mass of 55 kD.PSO4 readily bound plasmid DNA substrates, including closed circular plasmid DNA, indicating that PSO4 binds in a sequence-independent manner and does not require free DNA ends for binding. PSO4 expression was induced 15- to 30-fold in a normal human fibroblast cell line by gamma irradiation and chemical mutagens, but not by ultraviolet irradiation. Loss of PSO4 expression induced by small interfering RNA resulted in accumulation of double-strand breaks, apoptosis, and decreased cell survival after DNA damage.

Note: This product is for in vitro research use only