Human Ribonuclease P protein subunit p29 (POP4) ELISA Kit

Catalog No: #EK11436

Package Size: #EK11436-1 48T #EK11436-2 96T

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Description

Product Name	Human Ribonuclease P protein subunit p29 (POP4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RPP29; processing of precursor 4|ribonuclease P protein subunit p29
Accession No.	O95707
Uniprot	O95707
GeneID	10775;
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 POP4 in samples. An antibody specific for POP4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOP4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POP4 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 POP4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:POP4 encodes one of the protein subunits of the small nucleolar ribonucleoprotein complexes: the endoribonuclease for mitochondrial RNA processing complex and the ribonuclease P complex. The encoded protein is localized to the nucleus and associates directly with the RNA component of these complexes. This protein is involved in processing of precursor RNAs. Alternative splicing results in multiple transcript variants.The deduced 220-amino acid basic protein is rich in arginine and lysine, has nuclear localization sequences, and has a predicted molecular mass of approximately 25 kD. RPP29 is 23% identical to the yeast Pop4 protein. Fluorescent microscopy demonstrated nuclear and nucleolar expression of RPP29. Immunoblot analysis showed that antibodies to RPP14 or RPP29 precipitate native RNase P.

Note: This product is for in vitro research use only