Human Ribonuclease P/MRP protein subunit POP5 (POP5) ELISA Kit

Catalog No: #EK11435

Package Size: #EK11435-1 48T #EK11435-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Ribonuclease P/MRP protein subunit POP5 (POP5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HSPC004; RPP2; RPP20; RNase MRP/RNase P protein-like|processing of precursor 5
Accession No.	Q969H6
Uniprot	Q969H6
GeneID	51367;
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 POP5 in samples. An antibody specific for POP5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOP5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POP5 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 POP5 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:POP5. The deduced 163-amino acid protein has a calculated molecular mass of 18.8 kD. Western blot analysis of HeLa cells detected endogenous POP5 at an apparent molecular mass of 19 kD.

HeLa cell POP5 associated with RNase MRP and RNase P RNAs. The immunoprecipitated RNase P complex was able to cleave pre-tRNA into mature tRNA and its 5-prime leader sequence, indicating that POP5 is part of the catalytically active RNase P complex. Mutation analysis showed that the C terminus of POP5 was not required for association with RNase MRP or RNase P complexes or for RNase P activity.

Note: This product is for in vitro research use only