

# Mouse Ribonuclease P protein subunit p20 (POP7) ELISA Kit



Catalog No: #EK11434

Orders: order@signalwayantibody.com

Package Size: #EK11434-1 48T #EK11434-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Ribonuclease P protein subunit p20 (POP7) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	tcag7.985; 0610037N12Rik; RPP2; RPP20; POP7 (processing of precursor; <i>S. cerevisiae</i> ) homolog processing of precursor 7 processing of precursor 7; ribonuclease P subunit ribonuclease P protein subuni
Accession No.	Q9DCH2
Uniprot	Q9DCH2
GeneID	74097;
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 POP7 in samples. An antibody specific for POP7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOP7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POP7 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 POP7 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Ribonuclease P (RNase P) removes the 5-prime leader sequences from precursor tRNA molecules. RNase P consists of an RNA species (H1 RNA), the POP1 protein, and at least 7 proteins called RPPs. The RPPs have apparent molecular masses of 14 kD (RPP14), 20 kD (RPP20), 25 kD (RPP25), 29 kD (RPP29), 30 kD (RPP30), 38 kD (RPP38), and 40 kD (RPP40). Patients with scleroderma have serum reactive with RNase P, the Th antigen, which is also referred to as the To antigen, and RPP30 and RPP38. POP7 contains 140 amino acids with a predicted molecular mass of nearly 16 kD. Immunologic analysis determined that RPP20, unlike RPP30 and

RPP38, is not a target for antisera from systemic sclerosis patients.

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Note: This product is for in vitro research use only