Active Recombinant Human RPP40 protein, His-tagged

Cat. No. RPP40-2663H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human RPP40 protein(O75818)(49~258 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	49-258 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Ribonuclease P (RNASEP) is a type of ribonuclease which cleaves RNA. RNase P is unique from other RNases in that it is a ribozyme – a ribonucleic acid that acts as a catalyst in the same way that a protein based enzyme would. Its function is to cleave off an extra, or precursor, sequence of RNA on tRNA molecules. Besides, Methyl CpG Binding Protein 2 (MECP2) has been identified as an interactor of RNASEP, thus a binding ELISA assay was conducted to detect the interaction of recombinant human RNASEP and recombinant human MECP2. Briefly, RNASEP were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to MECP2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-RNASEP pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells

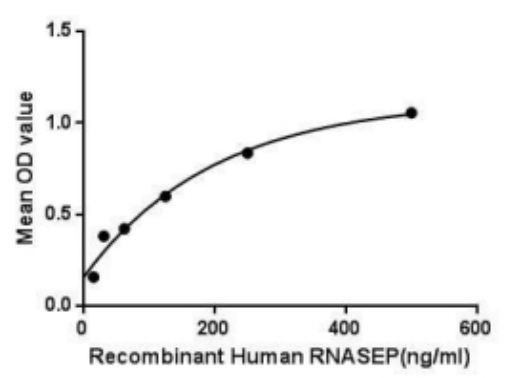
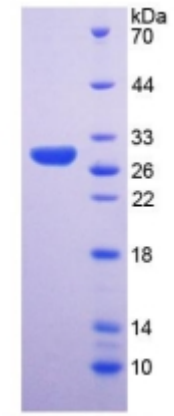
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	were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of RNASEP and MECP2 was shown, and this effect was in a dose dependent manner.
Molecular Mass	27.7kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	RPP40 ribonuclease P/MRP 40kDa subunit [Homo sapiens]
Official Symbol	RPP40
Synonyms	RPP40; ribonuclease P/MRP 40kDa subunit; ribonuclease P 40kDa subunit, ribonuclease P1, RNASEP1; ribonuclease P protein subunit p40; bA428J1.3; ribonuclease P1; RNase P subunit 1; RNaseP protein p40; ribonuclease P (40 kD); ribonuclease P 40kDa subunit; ribonuclease P, 40kD subunit; RNASEP1;
Gene ID	10799
mRNA Refseq	NM_006638

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Protein Refseq	NP_006629
MIM	606117
UniProt ID	O75818
Activity	
SDS-PAGE	

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