

Recombinant Human RPLP1 cell lysate

Cat. No. RPLP1-1540HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

Description

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal phosphoprotein that is a component of the 60S subunit. The protein, which is a functional equivalent of the E. coli L7/L12 ribosomal protein, belongs to the L12P family of ribosomal proteins. It plays an important role in the elongation step of protein synthesis. Unlike most ribosomal proteins, which are basic, the encoded protein is acidic. Its C-terminal end is nearly identical to the C-terminal ends of the ribosomal phosphoproteins P0 and P2. The P1 protein can interact with P0 and P2 to form a pentameric complex consisting of P1 and P2 dimers, and a P0 monomer. The protein is located in the cytoplasm. Two alternatively spliced transcript variants that encode different proteins have been observed. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)


Applications

Western Blot;

GENE INFORMATION

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Gene Name	RPLP1?ribosomal protein, large, P1 [?Homo sapiens?(human)]
Official Symbol	RPLP1
Synonyms	RPLP1; ribosomal protein, large, P1; P1; LP1; RPP1; 60S acidic ribosomal protein P1; acidic ribosomal phosphoprotein P1
Gene ID	6176
mRNA Refseq	NM_001003
Protein Refseq	NP_000994
MIM	180520
UniProt ID	P05386
Chromosome Location	15q22
Pathway	Cap-dependent Translation Initiation, organism-specific biosystem; Disease, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem
Function	RNA binding; protein binding; structural constituent of ribosome

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