

RPLP0 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57282

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P05388
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34274
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RPLP0
Epitope Specificity	221-317/317
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.
SIMILARITY	Belongs to the ribosomal protein L10P family.
SUBUNIT	P0 forms a pentameric complex by interaction with dimers of P1 and P2. Identified in a mRNP granule complex, at least composed of ACTB, ACTN4, DHX9, ERG, HNRNPA1, HNRNPA2B1, HNRNPAB, HNRNPD, HNRNPL, HNRNPR, HNRNPU, HSPA1, HSPA8, IGF2BP1, ILF2, ILF3, NCBP1, NCL, PABPC1, PABPC4, PABPN1, RPLP0, RPS3, RPS3A, RPS4X, RPS8, RPS9, SYNCRIP, TROVE2, YBX1 and untranslated mRNAs. Interacts with Lassa virus Z protein. Interacts with APEX1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 protein that is a component of the 60S subunit. The protein, which is the functional equivalent of the E. coli L10 ribosomal protein, belongs to the L10P family of ribosomal proteins. It is a neutral phosphoprotein with a C-terminal end that is nearly identical to the C-terminal ends of the acidic ribosomal phosphoproteins P1 and P2. The P0 protein can interact with P1 and P2 to form a pentameric complex consisting of P1 and P2 dimers, and a P0 monomer. The protein is located in the cytoplasm. Transcript variants derived from alternative splicing exist; they encode the same protein. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008].

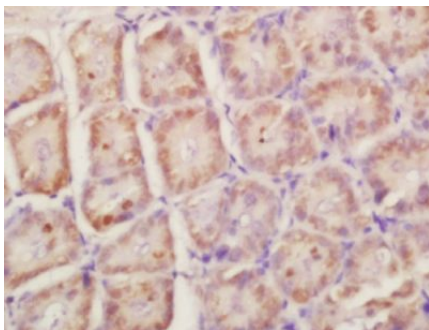
Additional Information

Gene ID	6175
Other Names	60S acidic ribosomal protein P0, 60S ribosomal protein L10E, Large ribosomal subunit protein uL10, RPLP0
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

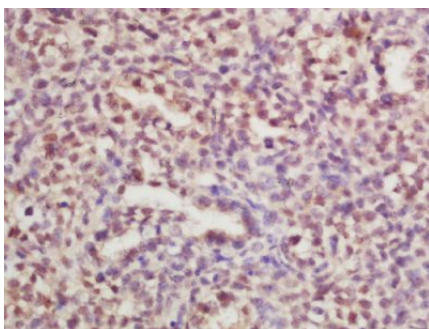
Protein Information

Name	RPLP0
Function	Ribosomal protein P0 is the functional equivalent of E.coli protein L10.
Cellular Location	Nucleus. Cytoplasm. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs (PubMed:17289661, PubMed:19188445).

Images

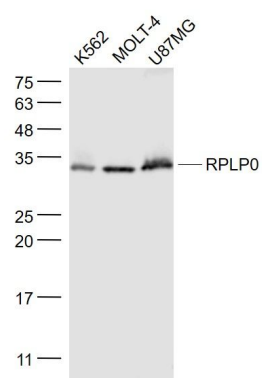


Tissue/cell: mouse intestine tissue; 4%
 Paraformaldehyde-fixed and paraffin-embedded;
 Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling
 bathing for 15min; Block endogenous peroxidase by 3%
 Hydrogen peroxide for 30min; Blocking buffer (normal
 goat serum,C-0005) at 37°C for 20 min;
 Incubation: Anti-RPLP0 Polyclonal Antibody,
 Unconjugated(AP57282) 1:200, overnight at 4°C, followed
 by conjugation to the secondary antibody(SP-0023) and
 DAB(C-0010) staining



Tissue/cell: mouse embryo tissue; 4%
 Paraformaldehyde-fixed and paraffin-embedded;
 Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling
 bathing for 15min; Block endogenous peroxidase by 3%
 Hydrogen peroxide for 30min; Blocking buffer (normal
 goat serum,C-0005) at 37°C for 20 min;
 Incubation: Anti-RPLP0 Polyclonal Antibody,
 Unconjugated(AP57282) 1:200, overnight at 4°C, followed
 by conjugation to the secondary antibody(SP-0023) and
 DAB(C-0010) staining

Sample:
 K562(Human) Cell Lysate at 30 ug
 Molt-4(Human) Cell Lysate at 30 ug
 U87mg(Human) Cell Lysate at 30 ug
 Primary: Anti- RPLP0 (AP57282) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at



1/20000 dilution
Predicted band size: 34 kD
Observed band size: 34 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.