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RPL34 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13207C

Product Information

Application	WB, IHC-P, E
Primary Accession	P49207
Other Accession	Q29223, Q9D1R9, NP_296374.1, NP_000986.2
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Pig, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32974
Calculated MW	13293
Antigen Region	37-66

Additional Information

Gene ID	6164
Other Names	60S ribosomal protein L34, RPL34
Target/Specificity	This RPL34 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 37-66 amino acids from the Central region of human RPL34.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RPL34 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RPL34
Function	Component of the large ribosomal subunit (PubMed: 12962325, PubMed:23636399, PubMed:25901680, PubMed:25957688, PubMed:32669547). The ribosome is a large ribonucleoprotein complex

responsible for the synthesis of proteins in the cell (PubMed:12962325, PubMed:23636399, PubMed:25901680, PubMed:25957688, PubMed:32669547).

Cellular Location

Cytoplasm, cytosol. Cytoplasm Endoplasmic reticulum {ECO:0000250|UniProtKB:Q29223}. Note=Detected on cytosolic polysomes (PubMed:25957688). Detected in ribosomes that are associated with the rough endoplasmic reticulum (By similarity) {ECO:0000250|UniProtKB:Q29223, ECO:0000269|PubMed:25957688}

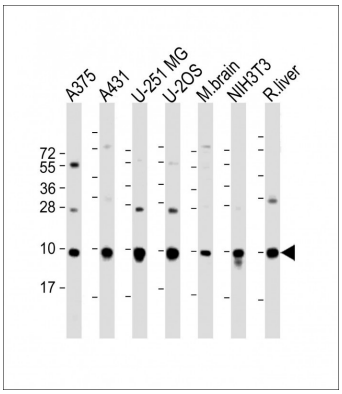
Background

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 belongs to the L34E family of ribosomal proteins. It is located in the cytoplasm. This gene originally was thought to be located at 17q21, but it has been mapped to 4q. Transcript variants derived from alternative splicing, alternative transcription initiation sites, and/or alternative polyadenylation exist; these variants encode the same protein. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

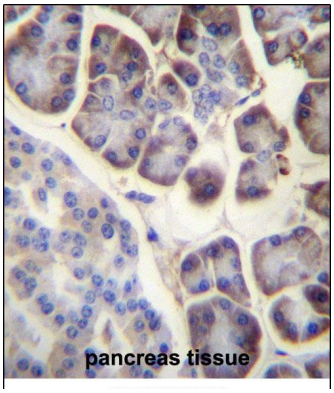
References

Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Andersen, J.S., et al. Nature 433(7021):77-83(2005)
Kapp, L.D., et al. Annu. Rev. Biochem. 73, 657-704 (2004) :
Mazumder, B., et al. Cell 115(2):187-198(2003)

Images



All lanes : Anti-RPL34 Antibody (Center) at 1:2000 dilution Lane 1: A375 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: U-251 MG whole cell lysate Lane 4: U-2OS whole cell lysate Lane 5: mouse brain lysate Lane 6: NIH3T3 whole cell lysate Lane 7: rat liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 13 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



RPL34 Antibody (Center) (Cat. #AP13207c)immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RPL34 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- Nucleolar stress in Drosophila melanogaster: RNAi-mediated depletion of Nopp140.
- Loss of Drosophila nucleostemin 2 (NS2) blocks nucleolar release of the 60S subunit leading to ribosome stress.

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