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RPL10 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19053a

Product Information

Application	WB, E
Primary Accession	P27635
Other Accession	Q6PDV7, Q29195, Q6ZWV3, Q4R7Y2, Q08200, Q9XSI3, P86048, Q4R4D3, Q96L21, Q2TBW8, NP_006004.2
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Monkey, Pig, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39792
Calculated MW	24577
Antigen Region	17-45

Additional Information

Gene ID	6134
Other Names	60S ribosomal protein L10, Laminin receptor homolog, Protein QM, Tumor suppressor QM, RPL10, DXS648E, QM
Target/Specificity	This RPL10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 17-45 amino acids from the N-terminal region of human RPL10.
Dilution	WB~~1:1000 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	RPL10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RPL10 (HGNC:10298)
Synonyms	DXS648E, QM

Function	Component of the large ribosomal subunit (PubMed: 26290468). Plays a role in the formation of actively translating ribosomes (PubMed:26290468). May play a role in the embryonic brain development (PubMed:25316788).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q6ZWV3}.

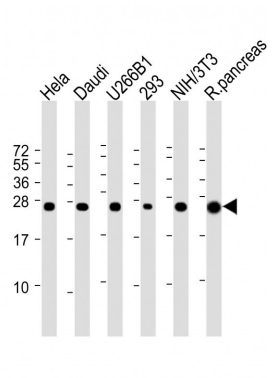
Background

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 L10E family of ribosomal proteins. It is located in the cytoplasm. In vitro studies have shown that the chicken protein can bind to c-Jun and can repress c-Jun-mediated transcriptional activation, but these activities have not been demonstrated in vivo. This gene was initially identified as a candidate for a Wilms tumor suppressor gene, but later studies determined that this gene is not involved in the suppression of Wilms tumor. This gene has been referred to as 'laminin receptor homolog' because a chimeric transcript consisting of sequence from this gene and sequence from the laminin receptor gene was isolated; however, it is not believed that this gene encodes a laminin receptor. Transcript variants utilizing alternative polyA signals exist. The variant with the longest 3' UTR overlaps the deoxyribonuclease I-like 1 gene on the opposite strand. This gene is co-transcribed with the small nucleolar RNA gene U70, which is located in its fifth intron. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Gong, X., et al. BMC Med. Genet. 10, 7 (2009) :
Nishimura, M., et al. J. Mol. Biol. 377(2):421-430(2008)
Farmer, A.A., et al. Nucleic Acids Res. 24(11):2158-2165(1996)

Images



All lanes : Anti-RPL10 Antibody (N-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: Daudi whole cell lysate Lane 3: U266B1 whole cell lysate Lane 4: 293 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: Rat pancreas lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 25 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Biological Function of Ribosomal Protein L10 on Cell Behavior in Human Epithelial Ovarian Cancer.