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RPL10L Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17603a

Product Information

Application	WB, E
Primary Accession	Q96L21
Other Accession	Q6PDV7, Q29195, Q6ZWV3, Q4R7Y2, P27635, Q09533, Q9XSI3, P86048, Q4R4D3, Q2TBW8, NP_542784.1
Reactivity	Human
Predicted	Bovine, Monkey, Mouse, C.Elegans, Pig, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37625
Calculated MW	24519
Antigen Region	9-35

Additional Information

Gene ID	140801
Other Names	60S ribosomal protein L10-like, RPL10L
Target/Specificity	This RPL10L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-35 amino acids from the N-terminal region of human RPL10L.
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	RPL10L Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RPL10L {ECO:0000303|PubMed:12490704, ECO:0000312|HGNC:HGNC:17976}
Function	Testis-specific component of the ribosome, which is required for the

	transition from prophase to metaphase in male meiosis I (By similarity). Compensates for the inactivated X-linked RPL10 paralog during spermatogenesis (PubMed:12490704). The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399, PubMed:25901680, PubMed:32669547). The male germ cell-specific ribosome displays a ribosomal polypeptide exit tunnel of distinct size and charge states compared with the classical ribosome (By similarity). It is responsible for regulating the biosynthesis and folding of a subset of male germ-cell-specific proteins that are essential for the formation of sperm (By similarity).
Cellular Location	Cytoplasm
Tissue Location	Almost testis-specific (PubMed:12490704, PubMed:19333399, PubMed:28502657). Also expressed in pre- and postmenopausal ovary (PubMed:19333399).

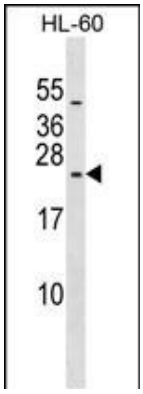
Background

This gene encodes a protein sharing sequence similarity with ribosomal protein L10. It is not currently known whether the encoded protein is a functional ribosomal protein or whether it has evolved a function that is independent of the ribosome. This gene is intronless.

References

Balasubramanian, S., et al. Genome Biol. 10 (1), R2 (2009) :
Uechi, T., et al. Nucleic Acids Res. 30(24):5369-5375(2002)
Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)

Images



RPL10L Antibody (N-term) (Cat. #AP17603a) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the RPL10L antibody detected the RPL10L protein (arrow).

Citations

- Human RNA ligase 1 as a novel regulator of ribosome function and translation under oxidative stress.

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