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Anti-MRPL41 Antibody

Catalog # AP53306

Product Information

Application	WB, IHC
Primary Accession	Q8IXM3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15383

Additional Information

Gene ID	64975
Other Names	BMRP; MRPL27; RPML27; 39S ribosomal protein L41 mitochondrial; L41mt; MRP-L41; 39S ribosomal protein L27 homolog; Bcl-2-interacting mitochondrial ribosomal protein L41; Cell proliferation-inducing gene 3 protein; MRP-L27 homolog
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MRPL41. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

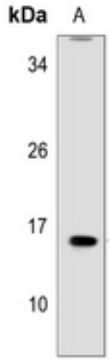
Name	MRPL41
Synonyms	BMRP, MRPL27, RPML27
Function	Component of the mitochondrial ribosome large subunit (PubMed:25278503, PubMed:25838379, PubMed:28892042, PubMed:35177605). Also involved in apoptosis and cell cycle (PubMed:16024796, PubMed:16256947). Enhances p53/TP53 stability, thereby contributing to p53/TP53-induced apoptosis in response to growth-inhibitory condition. Enhances p53/TP53 translocation to the mitochondria. Has the ability to arrest the cell cycle at the G1 phase, possibly by stabilizing the CDKN1A and CDKN1B (p27Kip1) proteins (PubMed:16024796).
Cellular Location	Mitochondrion

Tissue Location	Present in kidney, liver, thymus and testis, and at lower level in brain and spleen (at protein level)

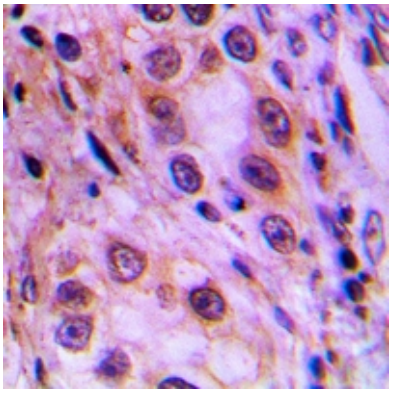
References

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Kenmochi N.,et al.Genomics 77:65-70(2001).
Koc E.C.,et al.J. Biol. Chem. 276:43958-43969(2001).
Chintharlapalli S.R.,et al.J. Cell. Biochem. 94:611-626(2005).

Images



Western blot analysis of MRPL41 expression in human liver (A) whole cell lysates. (Predicted band size: 15 kD; Observed band size: 15 kD)



Immunohistochemical analysis of MRPL41 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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