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MRP-S7 rabbit pAb

Cat No.:ES6495

For research use only

Overview

Product Name	MRP-S7 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human MRPS7. AA range:91-140
Specificity	MRP-S7 Polyclonal Antibody detects endogenous levels of MRP-S7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	28S ribosomal protein S7 mitochondrial
Gene Name	MRPS7
Cellular localization	Mitochondrion .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	24kD
Human Gene ID	51081
Human Swiss-Prot Number	Q9Y2R9
Alternative Names	MRPS7; 28S ribosomal protein S7; mitochondrial; MRP-S7; S7mt; bMRP-27a; bMRP27a
Background	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an

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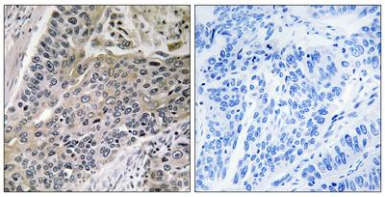
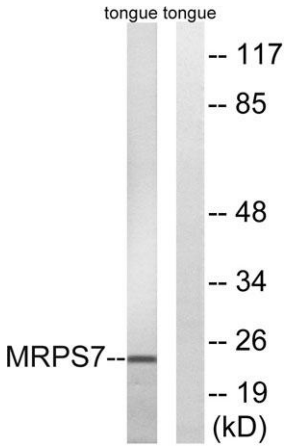
estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein. In the prokaryotic ribosome, the comparable protein is thought to play an essential role in organizing the 3' domain of the 16 S rRNA in the vicinity of the P- and A-sites. Pseudogenes corresponding to

Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using MRPS7 Antibody. The picture on the right is blocked with the synthesized peptide.





Western blot analysis of lysates from rat tongue cells, using MRPS7 Antibody. The lane on the right is blocked with the synthesized peptide.

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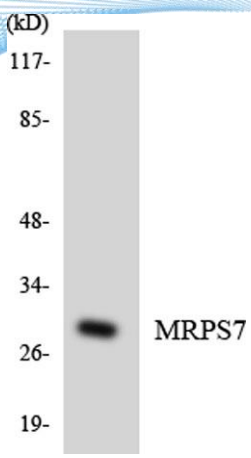

Western blot analysis of the lysates from HeLa cells using MRPS7 antibody.

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