

MRP-L10 rabbit pAb**Cat#: orb765701 (Manual)**

For research use only. Not intended for diagnostic use.

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| Product Name | MRP-L10 rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Rat;Mouse; |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human MRPL10. AA range:211-260 |
| Specificity | MRP-L10 Polyclonal Antibody detects endogenous levels of MRP-L10 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 | 39S ribosomal protein L10 mitochondrial |
| Gene Name | MRPL10 |
| Cellular localization | Mitochondrion . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |

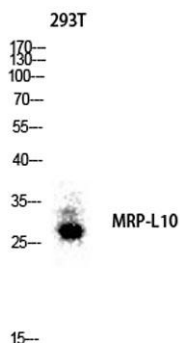
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|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Concentration | 1 mg/ml |
| Observed band | 29kD |
| Human Gene ID | 124995 |
| Human Swiss-Prot Number | Q7Z7H8 |
| Alternative Names | MRPL10; MRPL8; RPML8; 39S ribosomal protein L10; mitochondrial; L10mt; MRP-L10; 39S ribosomal protein L8, mitochondrial; L8mt; MRP-L8 |

Background

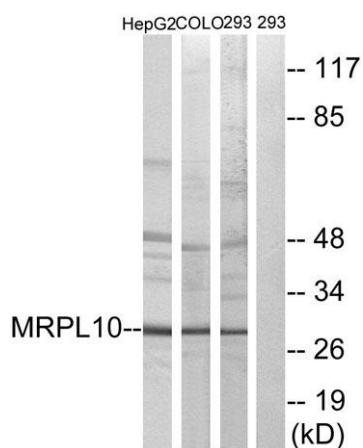
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic 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 39S subunit protein. Sequence analysis identified three transcript variants that encode two different isoforms. A pseudogene corresponding to this gene is found on chromosome 5q. [provided by RefSeq, Nov 2010],



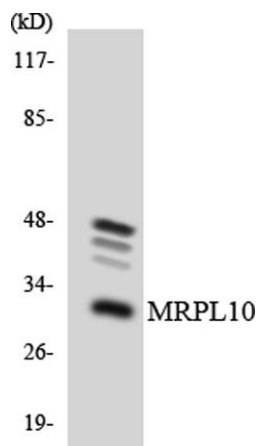
Western Blot analysis of various cells using MRP-L10 Polyclonal Antibody diluted at 1:1000



Western blot analysis of 293T lysis using MRP-L10 antibody. Antibody was diluted at 1:1000



Western blot analysis of lysates from 293, HepG2, and COLO cells, using MRPL10 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using MRPL10 antibody.