

**MRP-S32 rabbit pAb****Cat#: orb768519 (Manual)**

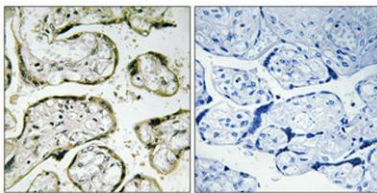
For research use only. Not intended for diagnostic use.

|                                 |   |
|---------------------------------|---|
| <b>Product Name</b>             | MRP-S32 rabbit pAb  |
| <b>Host species</b>             | Rabbit  |
| <b>Applications</b>             | IHC;IF;ELISA  |
| <b>Species Cross-Reactivity</b> | Human;Rat;Mouse;  |
| <b>Recommended dilutions</b>    | Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.                            |
| <b>Immunogen</b>                | The antiserum was produced against synthesized peptide derived from human MRPS42. AA range:75-124                     |
| <b>Specificity</b>              | MRP-S32 Polyclonal Antibody detects endogenous levels of MRP-S32 protein.   |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..  |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.  |
| <b>Protein Name</b>             | 39S ribosomal protein L42 mitochondrial   |
| <b>Gene Name</b>                | MRPL42  |
| <b>Cellular localization</b>    | Mitochondrion .   |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Clonality</b>                | Polyclonal  |

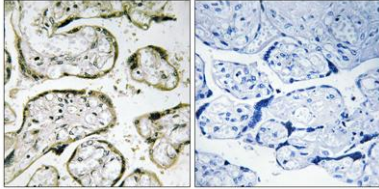
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|--------------------------------|---|
| <b>Concentration</b>           | 1 mg/ml   |
| <b>Observed band</b>           |   |
| <b>Human Gene ID</b>           | 28977   |
| <b>Human Swiss-Prot Number</b> | Q9Y6G3  |
| <b>Alternative Names</b>       | MRPL42; MRPL31; MRPS32; RPML31; HSPC204; PTD007; 39S ribosomal protein L42; mitochondrial; L42mt; MRP-L42; 28S ribosomal protein S32, mitochondrial; MRP-S32; S32mt; 39S ribosomal protein L31, mitochondrial; L31mt; MRP-L31 |

**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 protein identified as belonging to both the 28S and the 39S subunits. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q. [provid



**Immunohistochemical analysis of paraffin-embedded Human placenta. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed b**



**Immunohistochemistry analysis of paraffin-embedded human placenta, using MRPS32 Antibody. The picture on the right is blocked with the synthesized peptide.**