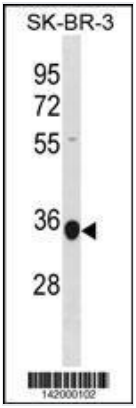
# MRPL45 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | MRPL45, Polyclonal Antibody |
| **Full Product Name** | MRPL45, CT (MRPL45, 39S ribosomal protein L45, mitochondrial) (APC) |
| **Product Gene Name** | anti-MRPL45 antibody |
| **Product Synonym Names** | MRPL45; 39S ribosomal protein L45, mitochondrial |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 306 |
| **OMIM** | 611850 |
| **3D Structure** | ModBase 3D Structure for Q9BRJ2 |
| **Immunogen** | MRPL45 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 218-245 amino acids from the C-terminal region of human MRPL45. |
| **Conjugate** | APC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-MRPL45 antibody** | Antibodies; Mitochondrial Proteins |
| **Applications Tested/Suitable for anti-MRPL45 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-MRPL45 antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-MRPL45 antibody** | MBS6322209 is an antibody targeting MRPL45. Also known as MRPL45, CT (MRPL45, 39S ribosomal protein L45, mitochondrial) (APC). Reactive in Human. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-MRPL45 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-MRPL45 antibody**
MRPL45 Antibody (C-term) western blot analysis in SK-BR-3 cell line lysates (35ug/lane).This demonstrates the MRPL45 antibody detected the MRPL45 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL45. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 29611869 |
| **NCBI GeneID** | 84311 |
| **NCBI Accession #** | Q9BRJ2.2 |
| **UniProt Primary Accession #** | Q9BRJ2 |
| **UniProt Secondary Accession #** | Q6ZMJ5; A1L436 |
| **UniProt Related Accession #** | Q9BRJ2 |
| **NCBI Official Full Name** | 39S ribosomal protein L45, mitochondrial |
| **NCBI Official Synonym Full Names** | mitochondrial ribosomal protein L45 |
| **NCBI Official Symbol** | MRPL45 |
| **NCBI Official Synonym Symbols** | L45mt; MRP-L45 |
| **UniProt Protein Name** | 39S ribosomal protein L45, mitochondrial |
| **Protein Family** | 39S ribosomal protein |
| **UniProt Gene Name** | MRPL45 |
| **UniProt Synonym Gene Names** | L45mt; MRP-L45 |
| **UniProt Entry Name** | RM45_HUMAN |
| **NCBI Protein Information** | 39S ribosomal protein L45, mitochondrial |
| **NCBI Summary for MRPL45** | 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. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 2p and 17q. [provided by RefSeq, May 2013] |

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| **UniProt Comments for MRPL45** | MRPL45: a mitochondrial ribosomal protein encoded by a nuclear gene that helps 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. Pseudogenes corresponding to this gene are found on chromosomes 2p and 17q. [provided by RefSeq, Jul 2008]<br><br>Protein type: Ribosomal; Translation; Mitochondrial; RNA-binding<br><br>Chromosomal Location of Human Ortholog: 17q21.2<br><br>Cellular Component: mitochondrion; mitochondrial inner membrane; ribosome<br><br>Biological Process: mitochondrial translation; organelle organization and biogenesis |
| **Research Articles on MRPL45** | **1.** Observational study of gene-disease association. (HuGE Navigator) |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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