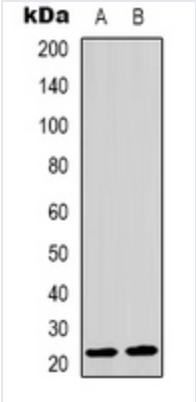
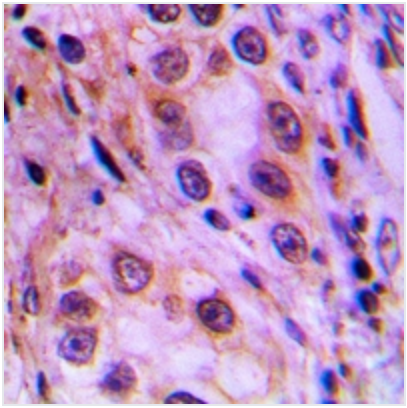
MRPL41 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPL41, Polyclonal Antibody
Full Product Name	MRPL41 Antibody
Product Gene Name	anti-MRPL41 antibody
Product Synonym 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
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Purity/Purification	Immunogen affinity chromatography
Concentration	1 mg/mL (lot specific)
Specificity	Recognizes endogenous levels of MRPL41 protein.
Preparation and Storage	Store at -20 degree C.
Molecular Weight	21 kDa
3D Structure	ModBase 3D Structure for Q8IXM3
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MRPL41.
Product Categories/Family for anti-MRPL41 antibody	Total protein Ab
Applications Tested/Suitable for anti-MRPL41 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MRPL41 antibody	WB: 1:500-1:1000 IHC: 1:50-1:100
Related Product Information for anti-MRPL41 antibody	MBS9430817 is an antibody targeting MRPL41. Also known as MRPL41 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-MRPL41 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-MRPL41 antibody
Western blot analysis of MED13L expression in HEK293T, COS7, C6, MEF whole cell lysates.



Immunohistochemistry (IHC) of anti-MRPL41 antibody
Immunohistochemical analysis of MRPL41 staining in human lung cancer formalin fixed paraffin embedded tissue section. 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL41. It may not necessarily be applicable to this product.

NCBI GI #	21265093
NCBI GeneID	64975
NCBI Accession #	NP_115866.1
UniProt Primary Accession #	Q8IXM3
UniProt Secondary Accession #	Q96Q49
UniProt Related Accession #	Q8IXM3
GenBank Nucleotide #	NM_032477.3
NCBI Official Full Name	39S ribosomal protein L41, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L41
NCBI Official Symbol	MRPL41
NCBI Official Synonym Symbols	BMRP; PIG3; MRPL27; RPML27; MRP-L27
UniProt Protein Name	39S ribosomal protein L41, mitochondrial
UniProt Synonym Protein Names	39S ribosomal protein L27 homolog; Bcl-2-interacting mitochondrial ribosomal protein L41; Cell proliferation-inducing gene 3 protein; MRP-L27 homolog; Mitochondrial large ribosomal subunit protein mL41
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL41
UniProt Synonym Gene Names	BMRP; MRPL27; RPML27; L41mt; MRP-L41
NCBI Protein Information	39S ribosomal protein L41, mitochondrial
NCBI Summary for MRPL41	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 that belongs to the YmL27 ribosomal protein family. [provided by RefSeq, Jul 2008]

UniProt Comments for MRPL41	Component of the mitochondrial ribosome large subunit (PubMed:28892042, PubMed:25838379, PubMed:25278503). 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).
Research Articles on MRPL41	**1.** Nuclear-encoded mitochondrial MTO1 and MRPL41 are regulated in an opposite epigenetic mode based on estrogen receptor status in breast cancer.
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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