

Rabbit MRPL41 Polyclonal Antibody | anti-MRPL41 antibody

MRPL41 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324354	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MRPL41; Polyclonal Antibody; MRPL41 Antibody; 39S ribosomal protein L27 homolog; 39S ribosomal protein L41; 39S ribosomal protein L41 mitochondrial; Bcl-2-interacting mitochondrial ribosomal protein L41; BMRP; Cell proliferation-inducing gene 3 protein; L41mt; mitochondrial; Mitochondrial ribosomal protein L41; MRP L27; MRP-L27 homolog; MRP-L41; MRPL27; mRpL41; PIG3; Proliferation inducing gene 3; RM41_HUMAN; RPML27; anti-MRPL41 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MRPL41 antibody detects endogenous levels of total MRPL41
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	137
Applicable Applications for anti-MRPL41 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Mitochondrion.
Tissue Specificity	Present in kidney, liver, thymus and testis, and at lower level in brain and spleen (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from HepG2 cells, using MRPL41 antibody.



IHC (Immunohistochemistry)

AAA324354 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA324354 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MRPL41 antibody	Function: Component of the mitochondrial ribosome large subunit (PubMed:25278503, PubMed:25838379). 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). Subunit Structure: Component of the mitochondrial large ribosomal subunit (mt-LSU). Mature mammalian 55S mitochondrial ribosomes consist of a small (28S) and a large (39S) subunit. The 28S small subunit contains a 12S ribosomal RNA (12S mt-rRNA) and 30 different proteins. The 39S large subunit contains a 16S rRNA (16S mt-rRNA), a copy of mitochondrial valine transfer RNA (mt-tRNA(Val)), which plays an integral structural role, and 52 different proteins (PubMed:11551941, PubMed:25278503, PubMed:25838379). Interacts with BCL2 (PubMed:15547950). Similarity: Belongs to the mitochondrion-specific ribosomal protein mL41 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21265093
NCBI GeneID	64975
NCBI Accession #	NP_115866.1
NCBI GenBank Nucleotide #	NM_032477.2
UniProt Accession #	Q8IXM3; Q96Q49
Molecular Weight	Observed: 21 kD Predicted: 16 kDa
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
NCBI Protein Information	39S ribosomal protein L41, mitochondrial
UniProt Protein Name	39S ribosomal protein L41, mitochondrial
UniProt Gene Name	MRPL41
UniProt Synonym Gene Names	BMRP; MRPL27; RPML27; L41mt; MRP-L41

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.