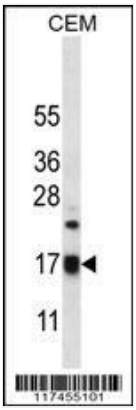
MRPS12 Antibody – Rabbit Polyclonal

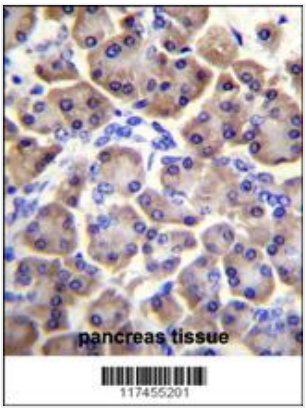
PRODUCT OVERVIEW

Product Name	MRPS12, Polyclonal Antibody
Full Product Name	MRPS12, ID (K43) (MRPS12, RPMS12, RPSM12, 28S ribosomal protein S12, mitochondrial, MT-RPS12) (FITC)
Product Gene Name	anti-MRPS12 antibody
Product Synonym Names	MRPS12; RPMS12; RPSM12; 28S ribosomal protein S12, mitochondrial; MT-RPS12
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
OMIM	603021
3D Structure	ModBase 3D Structure for O15235
Immunogen	MRPS12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-67 amino acids from the Central region of human MRPS12.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MRPS12 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-MRPS12 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MRPS12 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-MRPS12 antibody	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 28S subunit protein that belongs to the ribosomal protein S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5' UTR have been found for this gene; all three variants encode the same protein.
Product References and Citations for anti-MRPS12 antibody	Zanotto, E., et al. Biochim. Biophys. Acta 1789(5):432-442(2009). Russo, A., et al. Biochim. Biophys. Acta 1779(12):820-829(2008). Stelzl, U., et al. Cell 122(6):957-968(2005). Cui, Y.P., et al. World J. Gastroenterol. 9(9):1892-1896(2003). Zhang, Z., et al. Genomics 81(5):468-480(2003).
Other Notes	Small volumes of anti-MRPS12 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.
Searchable Terms for MRPS12 purchase	MBS6322288 is an antibody targeting MRPS12. Also known as MRPS12, ID (K43) (MRPS12, RPMS12, RPSM12, 28S ribosomal protein S12, mitochondrial, MT-RPS12) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MRPS12 antibody
MRPS12 Antibody (Center K43) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the MRPS12 antibody detected the MRPS12 protein (arrow).



Immunohistochemistry (IHC) of anti-MRPS12 antibody
MRPS12 Antibody (Center K43) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MRPS12 Antibody (Center K43) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPS12. It may not necessarily be applicable to this product.

NCBI GI #	16950589
NCBI GeneID	6183
NCBI Accession #	NP_203526.1
NCBI Related Accession #	NP_066930.1
UniProt Primary Accession #	O15235
UniProt Related Accession #	O15235
GenBank Nucleotide #	NP_203526.1
NCBI Official Full Name	28S ribosomal protein S12, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S12
NCBI Official Symbol	MRPS12

NCBI Official Synonym Symbols	RPS12; RPMS12; RPSM12; MPR-S12; MT-RPS12
UniProt Protein Name	28S ribosomal protein S12, mitochondrial
UniProt Synonym Protein Names	MT-RPS12
Protein Family	28S ribosomal protein
UniProt Gene Name	MRPS12
UniProt Synonym Gene Names	RPMS12; RPSM12; MRP-S12; S12mt
UniProt Entry Name	RT12_HUMAN
NCBI Protein Information	28S ribosomal protein S12, mitochondrial
UniProt Comments for MRPS12	MRPS12: 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 28S subunit protein that belongs to the ribosomal protein S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5' UTR have been found for this gene; all three variants encode the same protein. [provided by RefSeq, Jul 2008] Chromosomal Location of Human Ortholog: 19q13.1-q13.2 Cellular Component: small ribosomal subunit; mitochondrial inner membrane; mitochondrial ribosome Molecular Function: protein binding; structural constituent of ribosome Biological Process: mitochondrial translation; organelle organization and biogenesis
Research Articles on MRPS12	**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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