



Datasheet for ABIN656569  
**anti-MRPS12 antibody (AA 28-59)**



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2 Images

Overview

Quantity:	400 µL
Target:	MRPS12
Binding Specificity:	AA 28-59
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MRPS12 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This MRPS12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-59 amino acids from the Central region of human MRPS12.
Clone:	RB17455
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MRPS12
Alternative Name:	MRPS12 ( <a href="#">MRPS12 Products</a> )
Background:	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein

## Target Details

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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.

Molecular Weight:	15173
Gene ID:	6183
NCBI Accession:	<a href="#">NP_066930</a> , <a href="#">NP_203526</a> , <a href="#">NP_203527</a>
UniProt:	<a href="#">O15235</a>
Pathways:	<a href="#">Sensory Perception of Sound</a>

## Application Details

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Application Notes:	WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

## Handling

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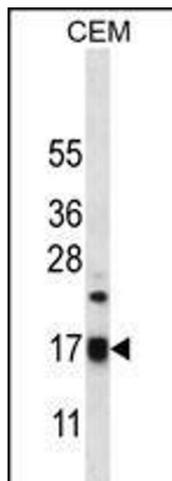
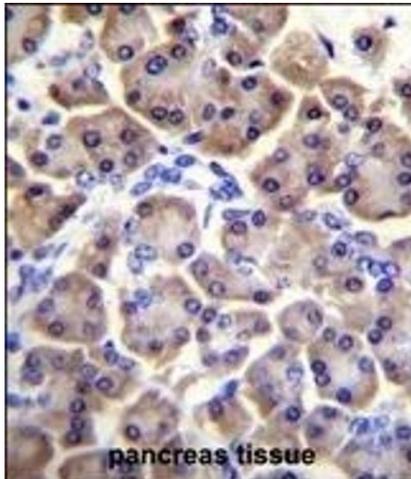
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	MRPS12 Antibody (Center K43) can be refrigerated at 2-8 °C for up to 6 months. For long term

## Handling

storage, place the at -20 °C.

Expiry Date: 6 months

## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** MRPS12 Antibody (Center K43) (ABIN656569 and ABIN2845829) 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.

### Western Blotting

**Image 2.** MRPS12 Antibody (Center K43) (ABIN656569 and ABIN2845829) western blot analysis in CEM cell line lysates (35 µg/lane). This demonstrates the MRPS12 antibody detected the MRPS12 protein (arrow).