

Datasheet for ABIN6144024  
**anti-MRPS12 antibody (AA 30-138)**



[Go to Product page](#)

1 Image

## Overview

Quantity:	100 µL
Target:	MRPS12
Binding Specificity:	AA 30-138
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MRPS12 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 30-138 of human MRPS12 (NP_203527.1).
Sequence:	MATLNQMHRL GPPKRPPRKL GPTEGRPQLK GVLCTFTRK PCKPNSANRK CCRVRLSTGR EAVCFIPGEG HTLQEHQIVL VEGGRTQDLP GVKLTVVRGK YDCGHVQKK
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	MRPS12
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## Target Details

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Alternative Name: [MRPS12 \(MRPS12 Products\)](#)

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Background: 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.,MRPS12,MPR-S12,MT-RPS12,RPMS12,RPS12,RPSM12,Epigenetics & Nuclear Signaling,MRPS12

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Molecular Weight: 15 kDa

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Gene ID: 6183

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UniProt: [O15235](#)

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Pathways: [Sensory Perception of Sound](#)

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## Application Details

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Application Notes: WB,1:1000 - 1:2000,IHC,1:50 - 1:200

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Comment: HIGH QUALITY

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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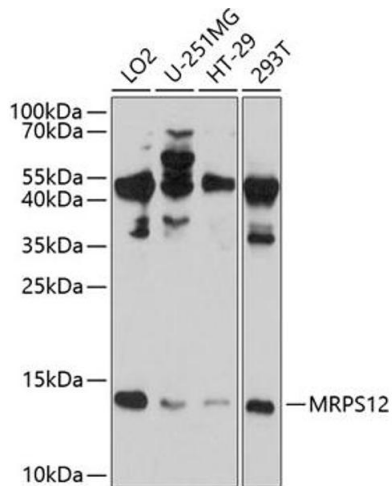
## Handling

should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using MRPS12 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.