

## Mouse Monoclonal Antibody to MRPL42

Catalogue Number	sAP-1007
Target Molecule	<b>Name: MRPL42</b> <b>Aliases:</b> L31MT; L42MT; S32MT; MRPL31; MRPS32; PTD007; RPML31; HSPC204; MRP-L31; MRP-L42; MRP-S32 <b>MW: 16.6kDa</b>
Description	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 protein identified as belonging to both the 28S and the 39S subunits. Alternative splicing results in multiple transcript variants. Pseudogenes correspond-
Immunogen	Purified recombinant fragment of human MRPL42 (AA: 10-142) expressed in E. Coli.
Reactive Species	Human;
Clone	MM3H6H2;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Genomics. 2003 May;81(5):468-80. ; 2. J Biol Chem. 2001 Nov 23;276(47):43958-69. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**