

MRP-S18C Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP05604
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human MRPS18C. AA range:71-120
Mol wt	15850
Species reactivity	Human, Mouse
Clonality	Polyclonal
Recommended application	WB, IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	MRP-S18C Antibody
Synonyms	MRPS18C; CGI-134; 28S ribosomal protein S18c; mitochondrial; MRP-S18-c; Mrps18-c; S18mt-c; 28S ribosomal protein S18-1, mitochondrial; MRP-S18-1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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. MRPS18C encodes a 28S subunit protein that belongs to the ribosomal protein S18P family. The encoded protein mitochondrial ribosomal protein S18C is one of three that has significant sequence similarity to bacterial S18 proteins. The primary sequences of the three human mitochondrial S18 proteins are no more closely related to each other than they are to the prokaryotic S18 proteins. Pseudogenes corresponding to this gene are found on chromosomes 8p, 12p, 15q, and 22q.

Recommended Dilution

WB: 1: 500 - 1: 2000

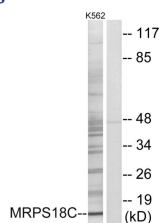
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

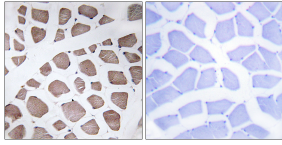
ELISA: 1: 40000

Not yet tested in other applications.

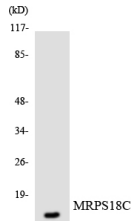
Images



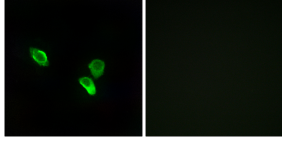
Western blot analysis of lysates from K562 cells, using MRPS18C Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using MRPS18C Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using MRPS18C antibody.



Immunofluorescence analysis of MCF7 cells, using MRPS18C Antibody. The picture on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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