

ARG45235 anti-MRPS18B antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Polyclonal antibody recognizes MRPS18B
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	MRPS18B
Species	Human
Immunogen	Recombinant protein containing to human MRPS18B.
Conjugation	Un-conjugated
Alternate Names	MRPS18B; Mitochondrial Ribosomal Protein S18B; C6orf14; MRPS18-2; HSPC183; PTD017; MS40; 28S Ribosomal Protein S18-2, Mitochondrial; 28S Ribosomal Protein S18b, Mitochondrial; Small Ribosomal Subunit Protein BS18b; Small Ribosomal Subunit Protein MS40; MRP-S18-2; MRP-S18-B; Mrps18-B; S18mt-B; Mitochondrial Small Ribosomal Subunit Protein BS18m-B; Mitochondrial Small Ribosomal Subunit Protein BS18b; Mitochondrial Small Ribosomal Subunit Protein MS40; Mitochondrial Ribosomal Protein S18-2; HumanS18a; S18amt

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	26 kDa	

Properties

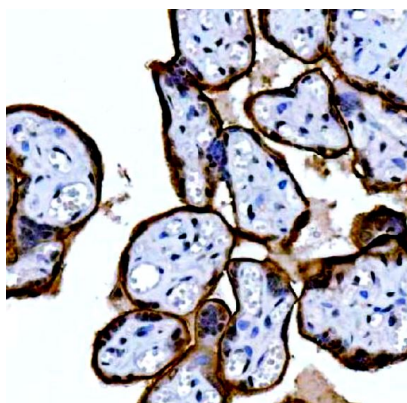
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

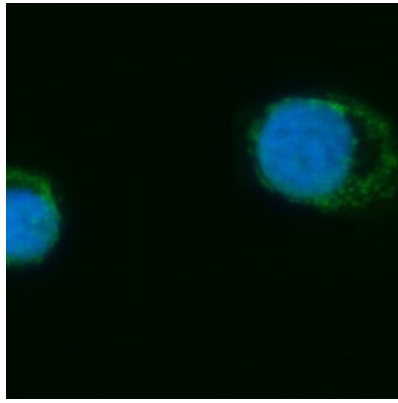
Gene Symbol	MRPS18B
Gene Full Name	Mitochondrial Ribosomal Protein S18B
Background	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. 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 S18P family. The encoded protein 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 1q and 2q. [provided by RefSeq, Jul 2008]
Function	There are 3 mitochondrial isoforms of bS18 in mammalia, localizing to 3 distinct sites in the mitoribosome. bS18m (bs18c) binds to the same site as bacterial bS18, mS40 (bS18b, this protein) binds to a novel location of the 28S small subunit, and mL66 (bS18a) binds to the 39S large subunit.. [UniProt]
Calculated Mw	29 kDa
PTM	Phosphoprotein. [UniProt]
Cellular Localization	Mitochondrion. [UniProt]

Images



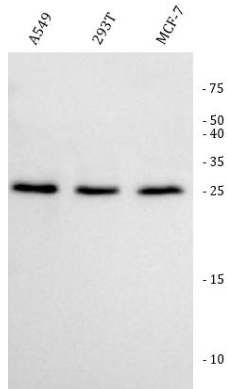
ARG45235 anti-MRPS18B antibody IHC-P image

Immunohistochemistry: Human placenta stained with ARG45235 anti-MRPS18B antibody at 2 µg/ml dilution.



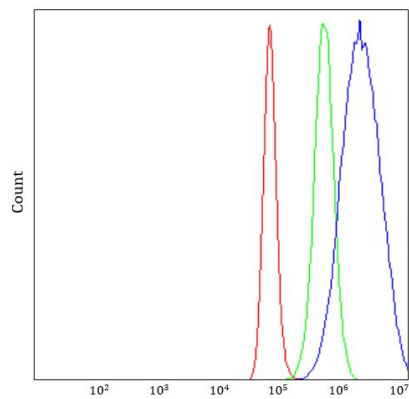
ARG45235 anti-MRPS18B antibody ICC/IF image

Immunofluorescence: T47D stained with ARG45235 anti-MRPS18B antibody at 5 ug/ml dilution.



ARG45235 anti-MRPS18B antibody WB image

Western blot: A549, 293T, and MCF-7 stained with ARG45235 anti-MRPS18B antibody at 0.5 μ g/ml dilution.



ARG45235 anti-MRPS18B antibody FACS image

Flow Cytometry: HeLa stained with ARG45235 anti-MRPS18B antibody at 1 μ g/ 10^6 cells dilution.