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MRPS25 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full-length recombinant MRPS25.
Catalog # AT2903a

Product Information

Application	WB
Primary Accession	P82663
Other Accession	BC003590
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3E7
Calculated MW	20116

Additional Information

Gene ID	64432
Other Names	28S ribosomal protein S25, mitochondrial, MRP-S25, S25mt, MRPS25, RPMS25
Target/Specificity	MRPS25 (AAH03590, 1 a.a. ~ 173 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MRPS25 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

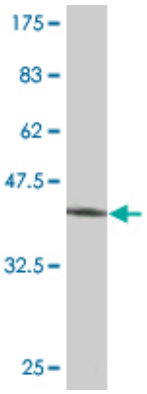
Background

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. A pseudogene corresponding to this gene is found on chromosome 4.

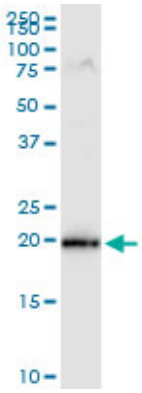
References

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.Identification and characterization of over 100 mitochondrial ribosomal protein pseudogenes in the human genome. Zhang Z, et al. Genomics, 2003 May. PMID 12706105.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

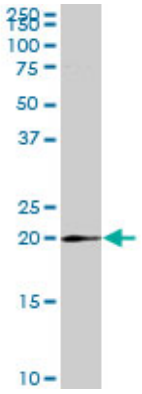
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (44.77 KDa) .



MRPS25 monoclonal antibody (M01), clone 3E6. Western Blot analysis of MRPS25 expression in PC-12((Cat # AT2903a)



MRPS25 monoclonal antibody (M01), clone 3E6. Western Blot analysis of MRPS25 expression in NIH/3T3 ((Cat # AT2903a)