

MRP-S2 rabbit pAb**Cat#: orb769373 (Manual)**

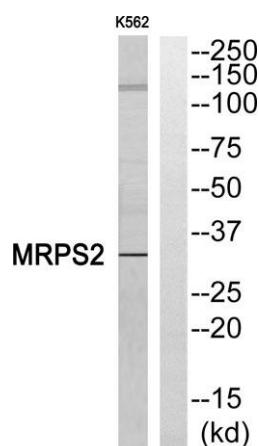
For research use only. Not intended for diagnostic use.

Product Name	MRP-S2 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human MRPS2. AA range:236-285
Specificity	MRP-S2 Polyclonal Antibody detects endogenous levels of MRP-S2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	28S ribosomal protein S2 mitochondrial
Gene Name	MRPS2
Cellular localization	Mitochondrion .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

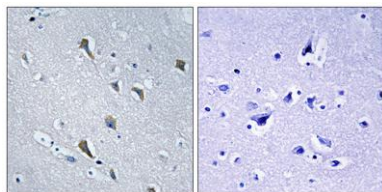
Concentration	1 mg/ml
Observed band	33kD
Human Gene ID	51116
Human Swiss-Prot Number	Q9Y399
Alternative Names	MRPS2; CGI-91; 28S ribosomal protein S2; mitochondrial; MRP-S2; S2mt

Background

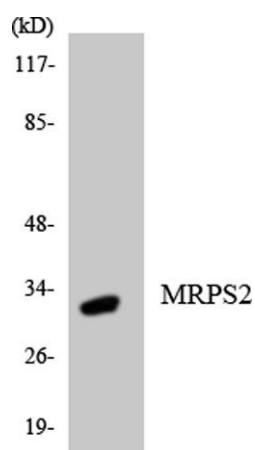
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic 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 S2 family. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2012],



Western blot analysis of MRPS2 Antibody. The lane on the right is blocked with the MRPS2 peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using MRPS2 Antibody. The lane on the right is blocked with the MRPS2 peptide.



Western blot analysis of the lysates from HepG2 cells using MRPS2 antibody.