

**MRP-S12 rabbit pAb****Cat#: orb765721 (Manual)**

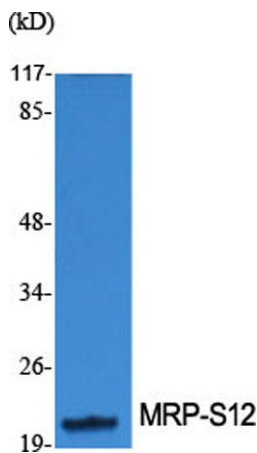
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	MRP-S12 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC
<b>Species Cross-Reactivity</b>	Human;Mouse
<b>Recommended dilutions</b>	WB 1:500-2000;IHC-p 1:50-300
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MRPS12. AA range:21-70
<b>Specificity</b>	MRP-S12 Polyclonal Antibody detects endogenous levels of MRP-S12 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	28S ribosomal protein S12 mitochondrial
<b>Gene Name</b>	MRPS12
<b>Cellular localization</b>	Mitochondrion .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

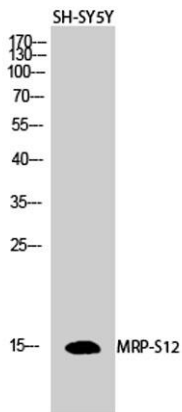
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	20kD
<b>Human Gene ID</b>	6183
<b>Human Swiss-Prot Number</b>	O15235
<b>Alternative Names</b>	MRPS12; RPMS12; RPSM12; 28S ribosomal protein S12; mitochondrial; MRP-S12; S12mt; MT-RPS12

**Background**

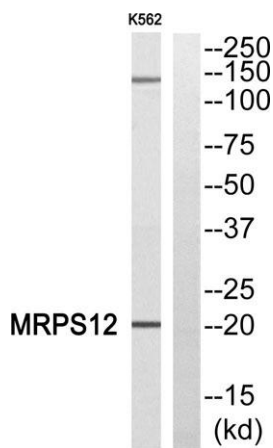
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic 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 S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. Th



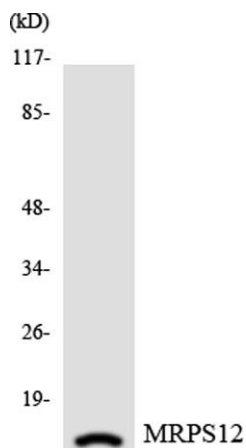
**Western Blot analysis of various cells using MRP-S12 Polyclonal Antibody diluted at 1:1000**



Western Blot analysis of SH-SY5Y cells using MRP-S12 Polyclonal Antibody diluted at 1:1000



Western blot analysis of MRPS12 Antibody. The lane on the right is blocked with the MRPS12 peptide.



Western blot analysis of the lysates from HepG2 cells using MRPS12 antibody.