

**Goat Anti-MRPL3 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1685a****Specification**

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**Goat Anti-MRPL3 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">P09001</a>
Other Accession	<a href="#">NP_009139</a> , <a href="#">11222</a>
Reactivity	Human
Predicted	Pig
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	38633

**Goat Anti-MRPL3 Antibody - Additional Information****Gene ID** 11222**Other Names**

39S ribosomal protein L3, mitochondrial, L3mt, MRP-L3, MRPL3, MRL3, RPML3

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-MRPL3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-MRPL3 Antibody - Protein Information****Name** MRPL3**Synonyms** MRL3, RPML3**Cellular Location**

Mitochondrion

### Goat Anti-MRPL3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Goat Anti-MRPL3 Antibody - Images



AF1685a staining (1 µg/ml) of HepG2 cell lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

### Goat Anti-MRPL3 Antibody - 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 39S subunit protein that belongs to the L3P ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 13q.

### Goat Anti-MRPL3 Antibody - References

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.  
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The human mitochondrial ribosomal protein genes: mapping of 54 genes to the chromosomes and

implications for human disorders. Kenmochi N, et al. Genomics, 2001 Sep. PMID 11543634.  
Cloning and characterization of a human ribosomal protein gene with enhanced expression in fetal and neoplastic cells. Ou JH, et al. Nucleic Acids Res, 1987 Nov 11. PMID 2891103.