

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

Goat Anti-MRPL3 Antibody - Product Information

Application	WB, E
Primary Accession	P09001
Other Accession	NP_009139 , 11222
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.
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.
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.