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MRPS27 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a full length recombinant MRPS27.
Catalog # AT2904a

Specification

MRPS27 Antibody (monoclonal) (M06) - Product Information

Application	**E**
Primary Accession	Q92552
Other Accession	BC030521
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**47611**

MRPS27 Antibody (monoclonal) (M06) - Additional Information

Gene ID 23107

Other Names
28S ribosomal protein S27, mitochondrial, MRP-S27, S27mt, MRPS27, KIAA0264

Target/Specificity
MRPS27 (AAH30521, 51 a.a. ~ 168 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

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
MRPS27 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

MRPS27 Antibody (monoclonal) (M06) - Protocols

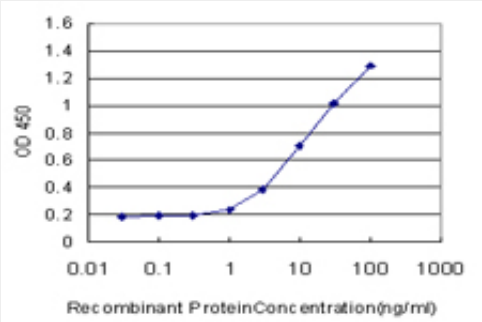
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

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- Cell Culture

MRPS27 Antibody (monoclonal) (M06) - Images



Detection limit for recombinant GST tagged MRPS27 is approximately 1ng/ml as a capture antibody.

MRPS27 Antibody (monoclonal) (M06) - 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 may be a functional partner of the death associated protein 3 (DAP3).

MRPS27 Antibody (monoclonal) (M06) - References

Systematic analysis of the protein interaction network for the human transcription machinery reveals the identity of the 7SK capping enzyme. Jeronimo C, et al. Mol Cell, 2007 Jul 20. PMID 17643375.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.Identification of four proteins from the small subunit of the mammalian mitochondrial ribosome using a proteomics approach. Koc EC, et al. Protein Sci, 2001 Mar. PMID 11344316.The small subunit of the mammalian mitochondrial ribosome. Identification of the full complement of ribosomal proteins present. Cavdar Koc E, et al. J Biol Chem, 2001 Jun 1. PMID 11279123.