

## Product datasheet for **TA502031AM**

### MRPS2 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI4D6]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4D6
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MRPS2 (NP_057118) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	33.1 kDa
Gene Name:	mitochondrial ribosomal protein S2
Database Link:	<a href="#">NP_057118</a> <a href="#">Entrez Gene 51116 Human</a> <a href="#">Q9Y399</a>



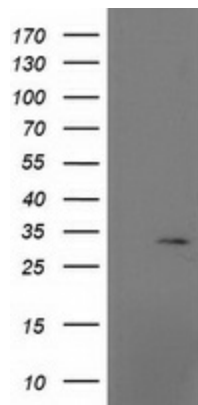
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**Background:**

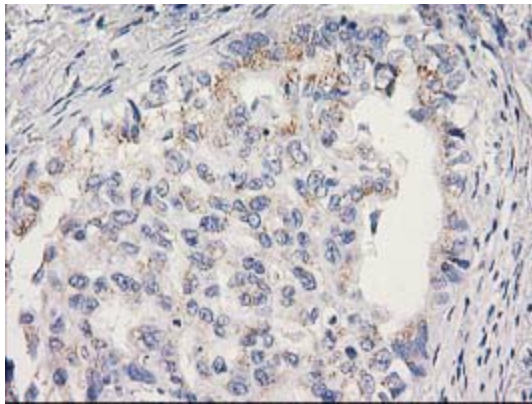
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic 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. [provided by RefSeq]. COMPLETENESS: complete on the 3' end.

**Synonyms:**

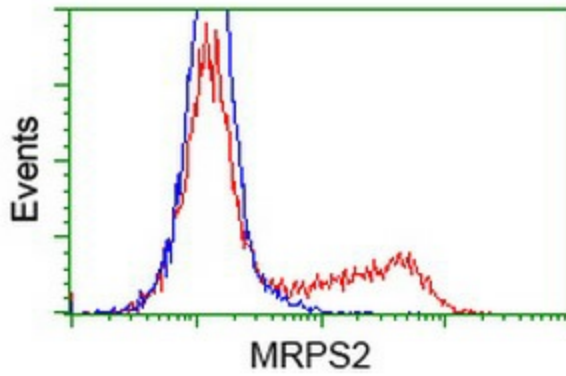
CGI-91; MRP-S2; S2mt

**Product images:**

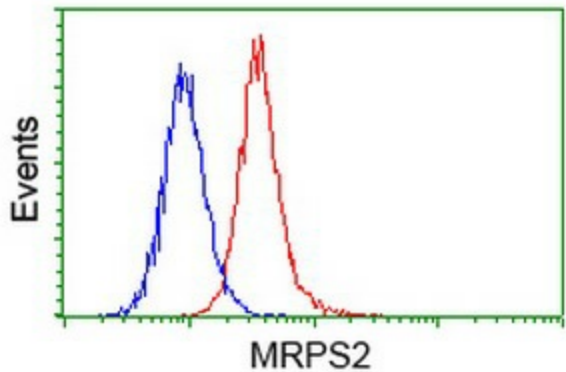
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MRPS2 (Cat# [RC203579], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MRPS2 (Cat# [TA502031]). Positive lysates [LY414231] (100ug) and [LC414231] (20ug) can be purchased separately from OriGene.



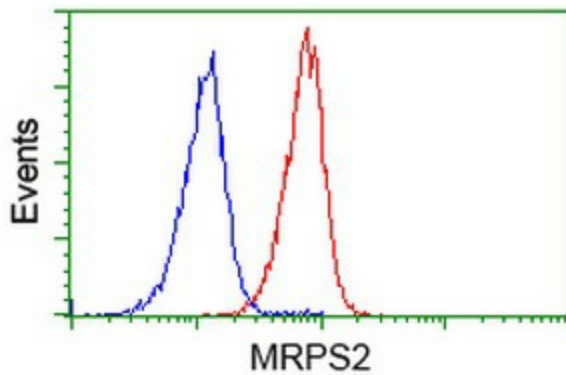
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-MRPS2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502031])



HEK293T cells transfected with either [RC203579] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-MRPS2 antibody ([TA502031]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-MRPS2 antibody ([TA502031]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-MRPS2 antibody ([TA502031]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).