

**KD-Validated Anti-MRPS27 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI2086****Specification****KD-Validated Anti-MRPS27 Mouse Monoclonal Antibody - Product Information**

|                   |                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB                                                                                                                                                                                                                                                        |
| Primary Accession | <a href="#">Q92552</a>                                                                                                                                                                                                                                    |
| Reactivity        | Human                                                                                                                                                                                                                                                     |
| Clonality         | Monoclonal                                                                                                                                                                                                                                                |
| Isotype           | Mouse IgG2b                                                                                                                                                                                                                                               |
| Calculated MW     | Predicted, 48 kDa, observed, 43 kDa                                                                                                                                                                                                                       |
| Gene Name         | KDa<br>MRPS27                                                                                                                                                                                                                                             |
| Aliases           | MRPS27; Mitochondrial Ribosomal Protein S27; KIAA0264; MS27; 28S Ribosomal Protein S27, Mitochondrial; Small Ribosomal Subunit Protein MS27; MRP-S27; S27mt ; Mitochondrial Small Ribosomal Subunit Protein MS27; Mitochondrial 28S Ribosomal Protein S27 |
| Immunogen         | Recombinant protein of human MRPS27                                                                                                                                                                                                                       |

**KD-Validated Anti-MRPS27 Mouse Monoclonal Antibody - Additional Information**Gene ID **23107****Other Names**

Small ribosomal subunit protein mS27, 28S ribosomal protein S27, mitochondrial, MRP-S27, S27mt, Mitochondrial ribosomal protein S27 {ECO:0000312|HGNC:HGNC:14512}, MRPS27 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=14512](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=14512))  
target="\_blank">HGNC:14512</a>), KIAA0264

**KD-Validated Anti-MRPS27 Mouse Monoclonal Antibody - Protein Information**Name MRPS27 ([HGNC:14512](#))

Synonyms KIAA0264

**Function**

RNA-binding component of the mitochondrial small ribosomal subunit (mt-SSU) that plays a role in mitochondrial protein synthesis (PubMed:<http://www.uniprot.org/citations/22841715>). Stimulates mitochondrial mRNA translation of subunit components of the mitochondrial electron transport chain (PubMed:<http://www.uniprot.org/citations/22841715>). Binds to the mitochondrial 12S rRNA (12S mt-rRNA) and tRNA(Glu) (PubMed:<http://www.uniprot.org/citations/22841715>). Involved also in positive regulation of cell proliferation and tumor cell growth (PubMed:<http://www.uniprot.org/citations/28714366>).

**Cellular Location**

Cytoplasm. Mitochondrion

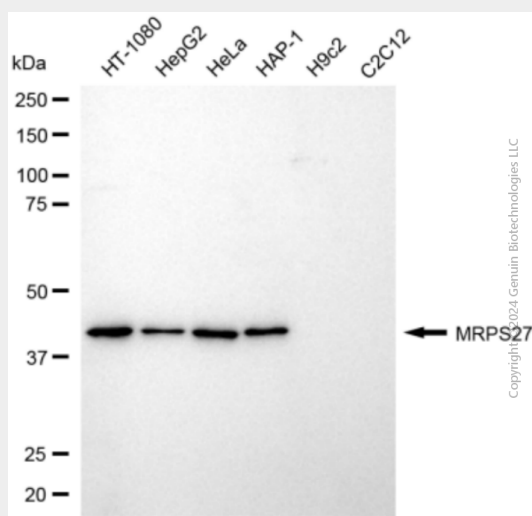
**Tissue Location**

Overexpressed in hepatocellular carcinoma tissues compared with adjacent non-tumoral liver tissues (at protein level) (PubMed:28714366). Ubiquitous (PubMed:22841715)

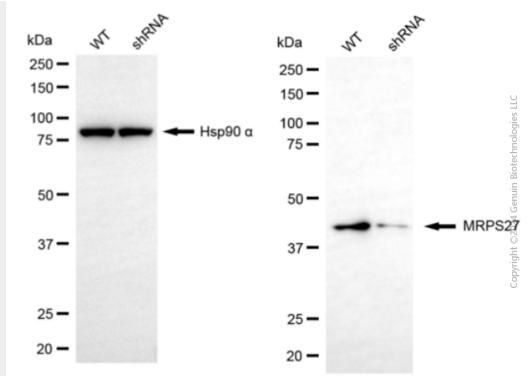
**KD-Validated Anti-MRPS27 Mouse Monoclonal Antibody - Protocols**

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](#)

**KD-Validated Anti-MRPS27 Mouse Monoclonal Antibody - Images**

Western blotting analysis using anti-MRPS27 antibody (Cat#AGI2086). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MRPS27 antibody (Cat#AGI2086, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-MRPS27 antibody (Cat#AGI2086). MRPS27 expression in wild-type (WT) and MRPS27 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-MRPS27 antibody (Cat#AGI2086, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.