

# KD-Validated Anti-MARS1 Rabbit Monoclonal Antibody

*Rabbit monoclonal antibody*

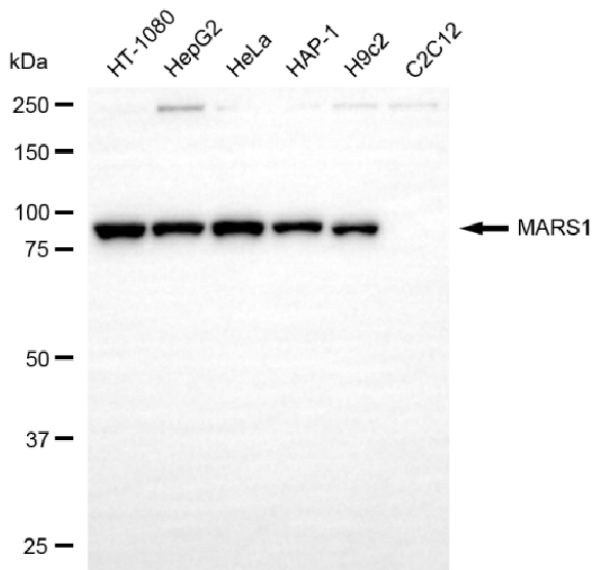
ABG2205

## Product Overview

|                             |                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                 | KD-Validated Anti-MARS1 Rabbit Monoclonal Antibody                                                                 |
| <b>Accession(Primary)</b>   | P56192                                                                                                             |
| <b>Host Species</b>         | Rabbit                                                                                                             |
| <b>Clonality</b>            | Monoclonal                                                                                                         |
| <b>Isotype</b>              | Rabbit IgG                                                                                                         |
| <b>Immunogen</b>            | A synthesized peptide derived from human MARS                                                                      |
| <b>Species Reactivity</b>   | Human, Rat                                                                                                         |
| <b>Calculated MW</b>        | Predicted, 101 kDa; observed, 95 kDa                                                                               |
| <b>Storage Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.                                          |
| <b>Recommended Dilution</b> | Western Blotting (WB): 1:1,000-1:5,000<br>Flow Cytometry (FCM): 1:2,000<br>Immunocytochemistry (IC): 1:100-1:1,000 |

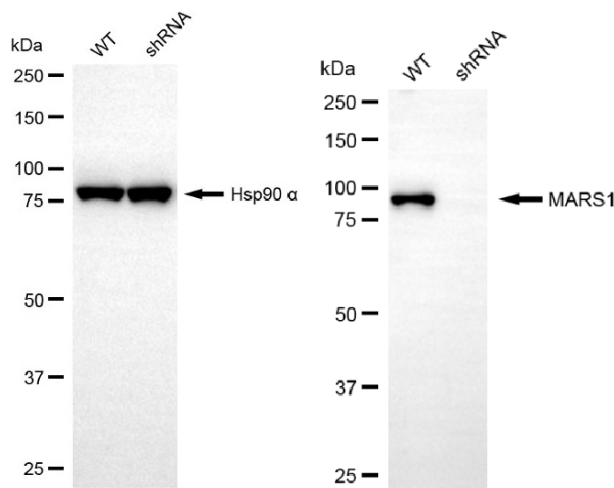
## Target information (P56192)

|                          |                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | MARS1                                                                                                                                                                                                                                                                                 |
| <b>About Gene Symbol</b> | MARS1 (Methionyl-TRNA Synthetase 1) is a biosynthetic enzyme involved in cellular metabolism. It is an important research target in metabolic disease, cancer metabolism, and drug discovery and is widely studied to elucidate cellular mechanisms and identify therapeutic targets. |



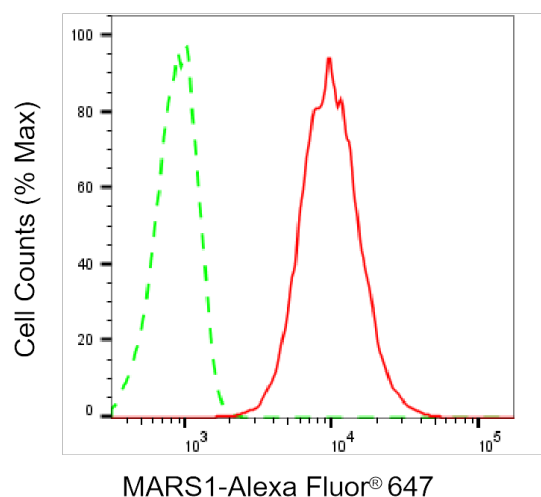
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Western blotting analysis using anti-MARS1 antibody (Cat#ABG2205). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MARS1 antibody (Cat#ABG2205, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



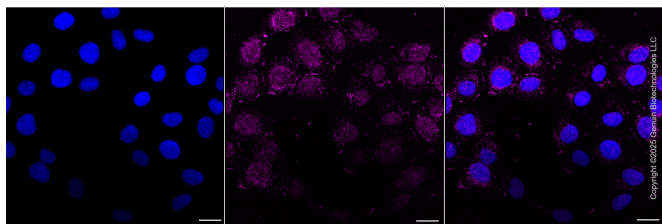
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Western blotting analysis using anti-MARS1 antibody (Cat#ABG2205). MARS1 expression in wild-type (WT) and MARS1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-MARS1 antibody (Cat#ABG2205, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of MARS1 expression in HT-1080 cells using anti-MARS1 antibody (Cat#ABG2205, 1:2,000). Green, isotype control; red, MARS1.



Immunocytochemical staining of HT-1080 cells with anti-MARS1 antibody (Cat#ABG2205, 1:1,000). Nuclei were stained blue with DAPI; MARS1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20  $\mu$ m.