

**Methionyl tRNA Synthetase Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7841b****Specification**

---

**Methionyl tRNA Synthetase Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q96GW9</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	66591
Antigen Region	564-593

**Methionyl tRNA Synthetase Antibody (C-term) - Additional Information****Gene ID** 92935**Other Names**

Methionine--tRNA ligase, mitochondrial, Methionyl-tRNA synthetase 2, Mitochondrial methionyl-tRNA synthetase, MtMetRS, MARS2

**Target/Specificity**

This Methionyl tRNA Synthetase antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 564-593 amino acids from the C-terminal region of human Methionyl tRNA Synthetase.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Methionyl tRNA Synthetase Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Methionyl tRNA Synthetase Antibody (C-term) - Protein Information****Name** MARS2

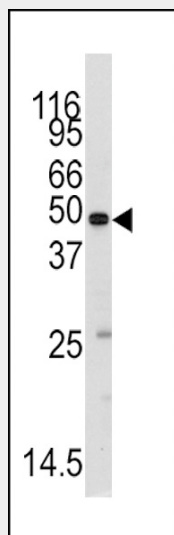
**Cellular Location**  
Mitochondrion matrix.

### Methionyl tRNA Synthetase Antibody (C-term) - Protocols

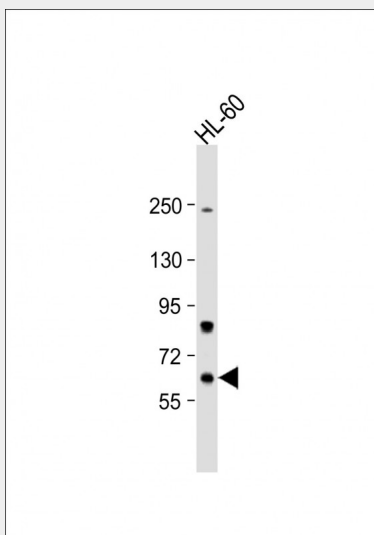
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

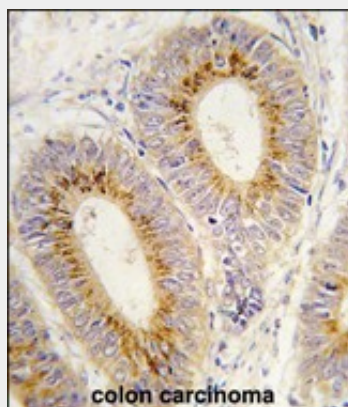
### Methionyl tRNA Synthetase Antibody (C-term) - Images



Western blot analysis of anti-MARS2 Antibody (C-term) (AP7841b) in mouse testis tissue lysates (35ug/lane). MARS2 (arrow) was detected using the purified Pab.



Anti-MARS2 Antibody (C-term) at 1:1000 dilution + HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 67 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with MARS2 antibody (C-term) (Cat.#AP7841b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

#### **Methionyl tRNA Synthetase Antibody (C-term) - Background**

Methionine-tRNA ligase (EC 6.1.1.10) catalyzes the chemical reaction:

ATP + L-methionine + tRNA<sup>Met</sup> → AMP + diphosphate + L-methionyl-tRNA<sup>Met</sup>

The 3 substrates of this enzyme are ATP, L-methionine, and tRNA(Met), whereas its 3 products are AMP, diphosphate, and L-methionyl-tRNA(Met).

This enzyme participates in 3 metabolic pathways: methionine metabolism, selenoamino acid metabolism, and aminoacyl-trna biosynthesis.

#### **Methionyl tRNA Synthetase Antibody (C-term) - References**

Spencer,A.C., Biochemistry 43 (30), 9743-9754 (2004)