

## Product datasheet for **AP14677PU-N**

### **MARS2 (C-term) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	ELISA: 1/1,000. Western blot: 1/50-1/100. Immunohistochemistry: 1/10-1/50.
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Isotype:</b>	Ig
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human MARS2.
<b>Specificity:</b>	This antibody recognizes Methionyl tRNA synthetase (MARS2).
<b>Formulation:</b>	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	methionyl-tRNA synthetase 2, mitochondrial
<b>Database Link:</b>	<a href="#">Entrez Gene 92935 Human</a> <a href="#">Q96GW9</a>



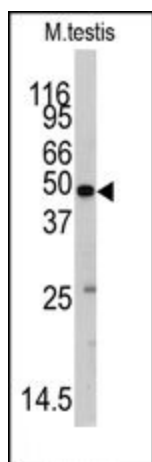
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**Background:**

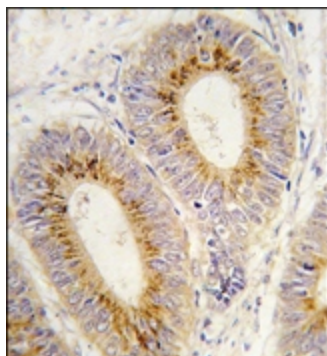
Methionine-tRNA ligase (EC 6.1.1.10) catalyzes the chemical reaction: ATP + L-methionine + tRNAMet  $\leftrightarrow$  AMP + diphosphate + L-methionyl-tRNAMet. The 3 substrates of this enzyme are ATP, L-methionine, and tRNA(Met), whereas its 3 products are AMP, diphosphate, and L-methionyl-tRNA(Met). This enzyme participates in 3 metabolic pathways: methionine metabolism, selenoamino acid metabolism, and aminoacyl-trna biosynthesis.

**Synonyms:**

Methionyl-tRNA synthetase, mitochondrial, Methionine-tRNA ligase 2, MtMetRS

**Product images:**

Western blot analysis of anti-MARS2 Antibody (C-term) in Mouse testis tissue lysates (35ug/lane). MARS2 (arrow) was detected using the purified Pab (1:60 dilution).



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with MARS2 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.