



## Rabbit Anti-MARS antibody

SL18682R

<b>Product Name:</b>	MARS
<b>Chinese Name:</b>	甲硫氨酸转运RNA合成酶抗体
<b>Alias:</b>	cytoplasmic; Mars; Methionine tRNA ligase 1, cytoplasmic; Methionine tRNA ligase; Methionine tRNA synthetase; Methionine--tRNA ligase; Methionyl tRNA synthetase; Methionyl-tRNA synthetase; MetRS; MTRNS; SYMC HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	101kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human MARS:1-100/900
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes a member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. The encoded protein is a component of the multi-tRNA synthetase complex and catalyzes the ligation of methionine to tRNA molecules. [provided by RefSeq, Jan 2011]

**Subunit:**

Component of the multisynthetase complex which is comprised of a bifunctional glutamyl-prolyl-tRNA synthetase, the monospecific isoleucyl, leucyl, glutaminyl, methionyl, lysyl, arginyl, and aspartyl-tRNA synthetases as well as three auxiliary proteins, p18, p48 and p43.

**Subcellular Location:**

Cytoplasm.

**DISEASE:**

Infantile liver failure syndrome 2 (ILFS2) [MIM:615486]: A life-threatening disorder of hepatic function that manifests with liver failure in the first months of life. Clinical features include failure to thrive, hypotonia, intermittent lactic acidosis, aminoaciduria, hypothyroidism, interstitial lung disease, anemia, liver canalicular cholestasis, steatosis, and iron deposition. Note=The disease is caused by mutations affecting the gene represented in this entry.

**Similarity:**

Belongs to the class-I aminoacyl-tRNA synthetase family.  
Contains 1 GST C-terminal domain.  
Contains 1 WHEP-TRS domain.

**SWISS:**

P56192

**Gene ID:**

4141

**Database links:**

[Entrez Gene: 4141](#) Human

[Entrez Gene: 216443](#) Mouse

[Entrez Gene: 299851](#) Rat

[Omim: 156560](#) Human

[SwissProt: P56192](#) Human

[SwissProt: Q68FL6](#) Mouse

[Unigene: 632707](#) Human

[Unigene: 28173](#) Mouse

	<p><b>Important Note:</b></p>
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