

Methionyl tRNA Synthetase Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7841b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q96GW9
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14925
Calculated MW	66591
Antigen Region	564-593

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~~1:100~500 E~~Use at an assay dependent concentration.
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.

Protein Information

Name	MARS2
Cellular Location	Mitochondrion matrix.

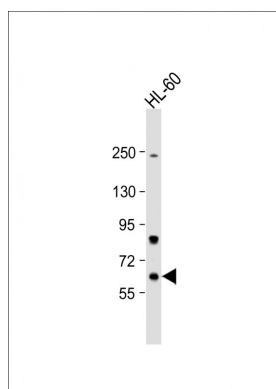
Background

Methionine-tRNA ligase (EC 6.1.1.10) catalyzes the chemical reaction: ATP + L-methionine + tRNA^{Met} AMP + diphosphate + L-methionyl-tRNA^{Met} 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.

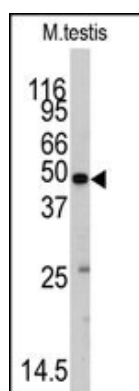
References

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

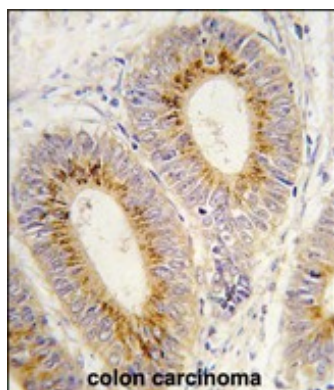
Images



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.



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.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.