

Anti-MetRS Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

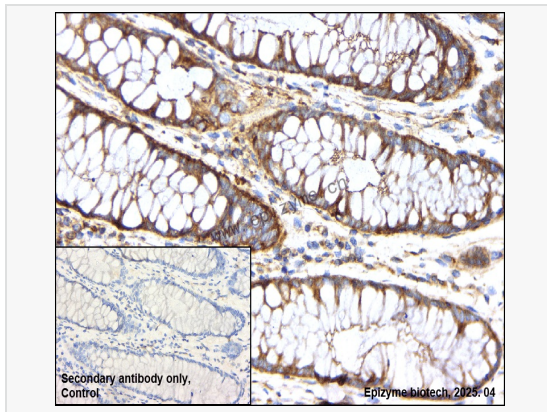
Catalog # R011407

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:5,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	85K64L99
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human MARS
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-MetRS Rabbit mAb [85K64L99] is for research use only and not for use in diagnostic or therapeutic procedures.

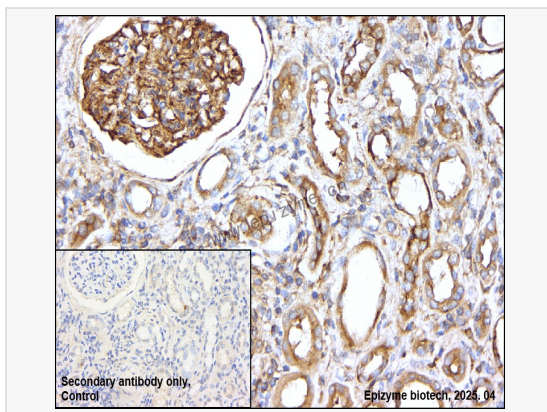
Protein Information

Synonyms	cytoplasmic; FLJ35667; Mars; Methionine tRNA ligase 1; Methionine tRNA ligase 1 cytoplasmic; Methionine tRNA ligase; Methionine tRNA synthetase; Methionine--tRNA ligase; Methionyl tRNA synthetase cytoplasmic; Methionyl-tRNA synthetase; MetRS; MRS; MTRNS; SYMC_HUMAN.
Calculated MW	Calculated MW: 101 kDa; Observed MW: 101 kDa
Uniprot ID	P56192
Gene ID	4141
Background	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]
Cellular Location	Cytoplasm.



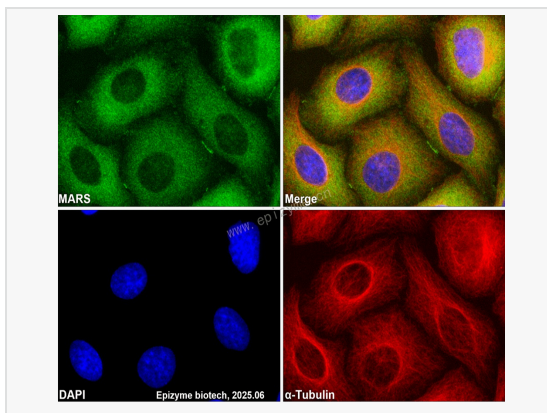
Immunohistochemistry - Anti-MetRS Rabbit mAb [85K64L99]

Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R011407 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,001 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



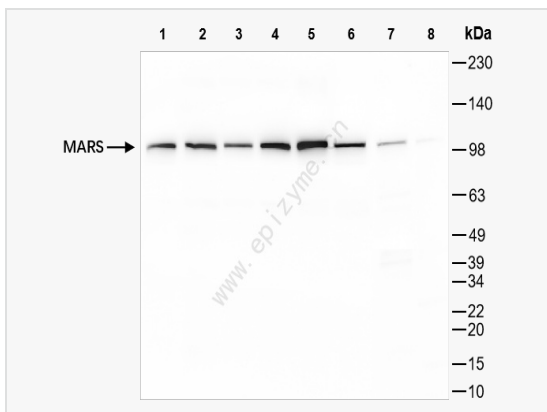
Immunohistochemistry - Anti-MetRS Rabbit mAb [85K64L99]

Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R011407 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,001 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-MetRS Rabbit mAb [85K64L99]

Sample: HeLa cells
 The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
 Primary antibodies: R011407 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
 Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
 Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-MetRS Rabbit mAb [85K64L99]

All lanes: R011407 at 1:5,000 dilution
 Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
 Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
 Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
 Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
 Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates
 Lane 6: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
 Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
 Lane 8: Rat heart whole tissue lysates
 Lysates/proteins at 10 μ g per lane.
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
 Predicted band size: 101 kDa
 Observed band size: 101 kDa
 Developed using the ECL technique (Cat. No. SQ201).