

Anti-CARS Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

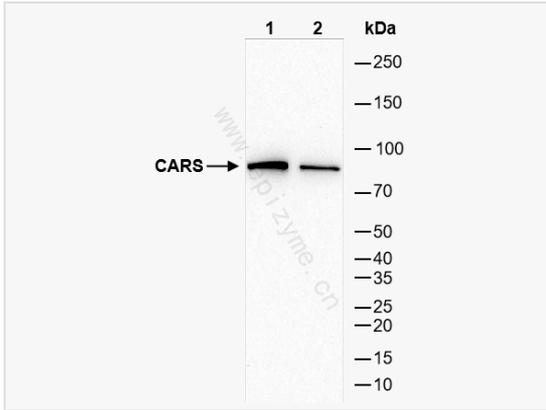
Catalog # R013586

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:4,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	70L38L44
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human CARS
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-CARS Rabbit mAb [70L38L44] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Cysteine tRNA ligase, Cars, CysRS, Cysteine--tRNA ligase, CysteinyI tRNA synthetase, cytoplasmic, CysteinyI-tRNA synthetase, cytoplasmic, MGC:11246, SYCC_HUMAN.
Calculated MW	Calculated MW: 86 kDa; Observed MW: 86 kDa
Uniprot ID	P49589
Gene ID	833
Background	This gene encodes a class 1 aminoacyl-tRNA synthetase, cysteinyI-tRNA synthetase. Each of the twenty aminoacyl-tRNA synthetases catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with the cognate amino acid. This gene is one of several located near the imprinted gene domain on chromosome 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian and breast cancers. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2010]
Cellular Location	Cytoplasm.



Western Blot - Anti-CARS Rabbit mAb [70L38L44]

All lanes: R013586 at 1:4,000 dilution

Lane 1: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates

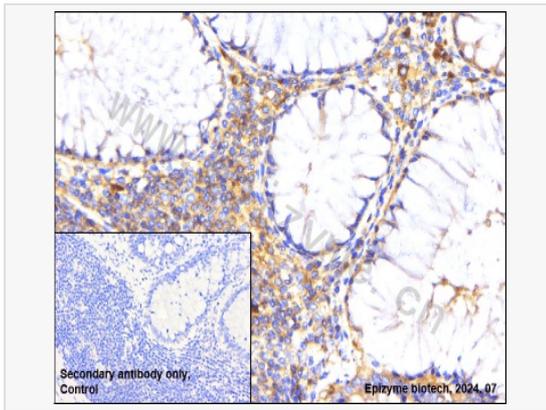
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 86 kDa

Observed band size: 86 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-CARS Rabbit mAb [70L38L44]

Sample: Paraformaldehyde-fixed, paraffin embedded human colorectal carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013586 at 1:200 dilution

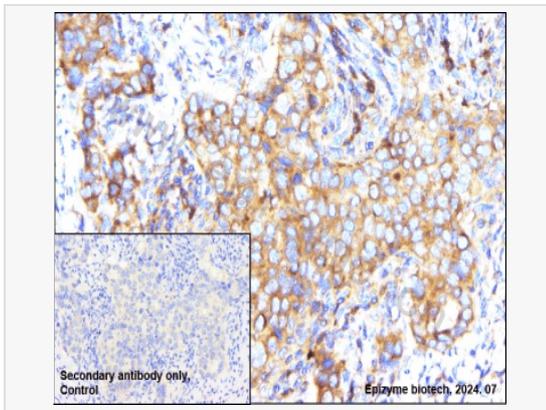
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-CARS Rabbit mAb [70L38L44]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast carcinoma

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013586 at 1:200 dilution

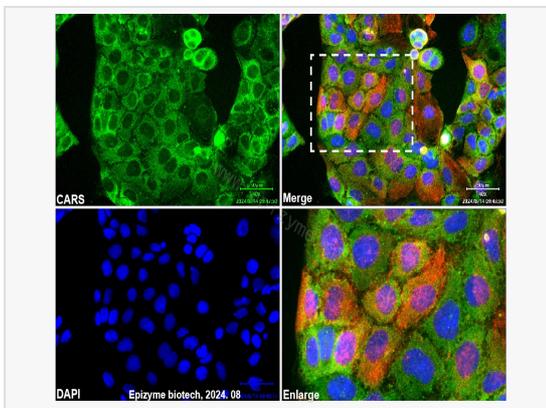
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-CARS Rabbit mAb [70L38L44]

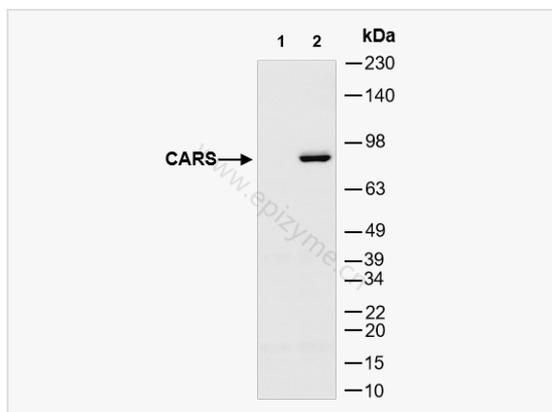
Sample: Caco-2 cells

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: R013586 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-CARS Rabbit mAb [70L38L44]

All lanes: R013586 at 1:4,000 dilution

Lane 1: Raw264.7 (Mouse mononuclear macrophage leukemia cell)whole cell lysates

Lane 2: PC-12(Rat adrenal pheochromocytoma epithelial cell)whole cell 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: 86 kDa

Observed band size: 86 kDa

Developed using the ECL technique (Cat. No. SQ201).