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Product datasheet for TA345737

CARS1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CARS antibody: synthetic peptide directed towards the C terminal of human CARS. Synthetic peptide located within the following region: KRKKKEEAARRKQEQEAAKLAKMKIPPSEMFLSETDKYSKFDENGLPTHD
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	81 kDa
Gene Name:	cysteinyl-tRNA synthetase
Database Link:	NP_001014438 Entrez Gene 833 Human P49589

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Background: CARS is a class 1 aminoacyl-tRNA synthetase, cysteinyl-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 of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. Western blots using two different antibodies against two unique regions of this protein target confirm the same apparent molecular weight in our tests.This gene encodes a class 1 aminoacyl-tRNA synthetase, cysteinyl-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 of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.

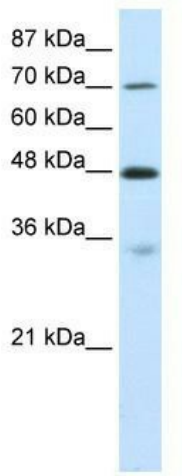
Synonyms: CARS1; CYSRS; cysteine-tRNA ligase; cysteine translase; cysteine tRNA ligase 1; cysteinyl-tRNA synthetase; cytoplasmic; MGC:11246; OTTHUMP00000012605

Note: Immunogen Sequence Homology: Rat: 100%; Human: 100%; Rabbit: 100%; Dog: 93%; Horse: 93%; Zebrafish: 93%; Mouse: 92%; Yeast: 91%; Pig: 85%; Bovine: 79%

Protein Families: Druggable Genome

Protein Pathways: Aminoacyl-tRNA biosynthesis

Product images:



WB Suggested Anti-CARS Antibody Titration: 0.2-1 ug/ml; Positive Control: HepG2 cell lysate

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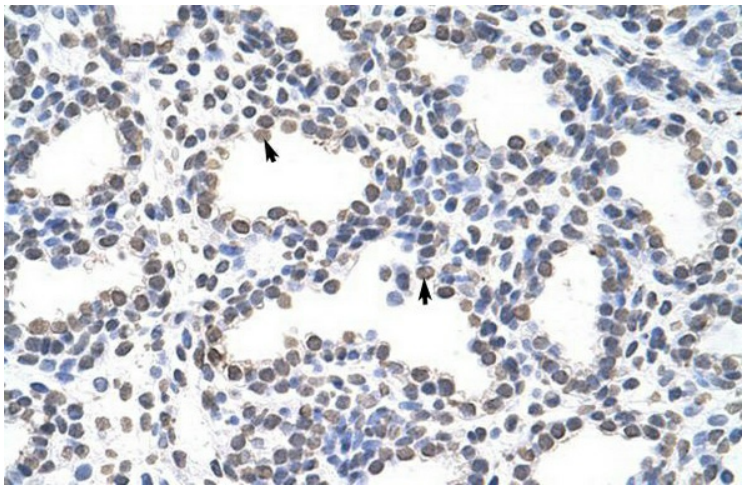

Rabbit Anti-CARS Antibody; Paraffin Embedded Tissue: Human Lung; Cellular Data: Alveolar cells; Antibody Concentration: 4.0-8.0 ug/ml; Magnification: 400X

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