Rabbit anti-Human, Rat CARS Polyclonal Antibody | anti-CARS antibody

CARS antibody - N-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA198615	**Rabbit**	**Human, Rat**	**Western Blot, Immunohistochemistry**

PRODUCT SYNONYMS

CARS; Polyclonal Antibody; CARS antibody - N-terminal region; anti-CARS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Syntheticp eptideloca tedwithint hefollowin gregion:MQ TPPLQQPHQE QVFLAFLVIV IPSFLTKEVF IPQDGKKVTW YCCGPTVY
Sequence Length	738
Applicable Applications for anti-CARS antibody	WB (Western Blot), IHC (Immunohistochemistry)
Homology	Human: 100%; Rat: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human CARS
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

WB (Western Blot)
WB Suggested Anti-CARS Antibody Titration: 0.2-1 ug/mlPositive Control: HepG2 cell lysate

IHC (Immunohistochemistry)
Rabbit Anti-CARS AntibodyParaffin Embedded Tissue: Human LungCellular Data: Alveolar cellsAntibody Concentration: 4.0-8.0 ug/mlMagnification: 400X

ADDITIONAL INFORMATION

Related Product Information for anti-CARS antibody	This is a rabbit polyclonal antibody against CARS. It was validated on Western Blot and immunohistochemistry Target Description: 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.
Product Categories/Family for anti-CARS antibody	Polyclonal; RNA Binding Proteins; Disease Related; Immunohistochemistry

NCBI AND UNIPROT INFORMATION

NCBI GI #	303304987
NCBI GeneID	833
NCBI Accession #	NP_001014438
NCBI GenBank Nucleotide #	NM_001014438
UniProt Accession #	P49589
Molecular Weight	81kDa
NCBI Official Full Name	cysteine--tRNA ligase, cytoplasmic isoform e
NCBI Official Synonym Full Names	cysteinyl-tRNA synthetase
NCBI Official Symbol	CARS
NCBI Official Synonym Symbols	CARS1; CYSRS; MGC:11246
NCBI Protein Information	cysteine--tRNA ligase, cytoplasmic
UniProt Protein Name	Cysteine--tRNA ligase, cytoplasmic
UniProt Gene Name	**CARS**
UniProt Synonym Gene Names	CysRS
UniProt Entry Name	SYCC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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