10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CARS Picoband Antibody
Catalog # ABO12819

Specification

Anti-CARS Picoband Antibody - Product Information

Application	**WB, E**
Primary Accession	P49589
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for CARS detection. Tested with WB, Direct ELISA in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CARS Picoband Antibody - Additional Information

Gene ID 833

Other Names
Cysteine--tRNA ligase, cytoplasmic, 6.1.1.16, Cysteinyl-tRNA synthetase, CysRS, CARS

Calculated MW
85473 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml
 Direct ELISA, 0.1-0.5 µg/ml

Subcellular Localization
Cytoplasm.

Contents
Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen
E. coli-derived human CARS recombinant protein (Position: D510-Q748).

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C; for one year. After r˚Constitution, at 4˚C; for one month. It˚Can also be aliquotted and stored frozen at -20˚C; for a longer time. Avoid repeated freezing and thawing.**

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CARS Picoband Antibody - Protein Information

Name CARS1 (HGNC:1493)

Synonyms CARS

Function
Catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys).

Cellular Location
Cytoplasm.

Anti-CARS Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CARS Picoband Antibody - Images

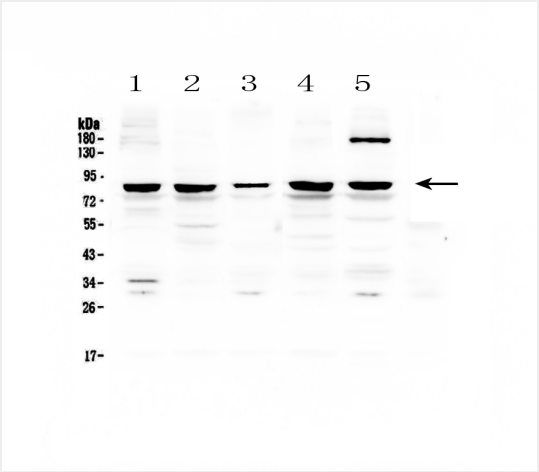

Figure 1. Western blot analysis of CARS using anti-CARS antibody (ABO12819).

Anti-CARS Picoband Antibody - Background

This CARS 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 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.