

**CARS2 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7846b****Specification**

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**CARS2 Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q9HA77</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	536-564

**CARS2 Antibody (C-term) - Additional Information****Gene ID** 79587**Other Names**

Probable cysteine--tRNA ligase, mitochondrial, CysteinyI-tRNA synthetase, CysRS, CARS2

**Target/Specificity**

This CARS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 536-564 amino acids from the C-terminal region of human CARS2.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CARS2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CARS2 Antibody (C-term) - Protein Information****Name** CARS2 ([HGNC:25695](#))**Function** Mitochondrial cysteine-specific aminoacyl-tRNA synthetase that catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys).

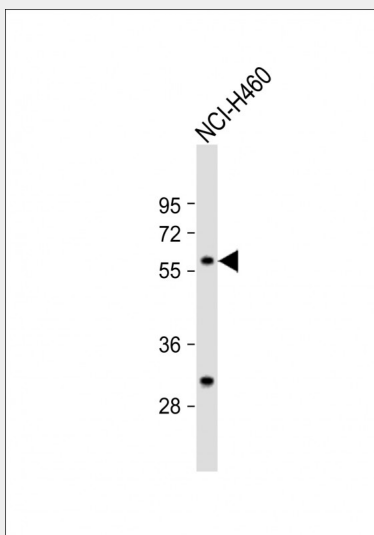
**Cellular Location**  
Mitochondrion.

### **CARS2 Antibody (C-term) - Protocols**

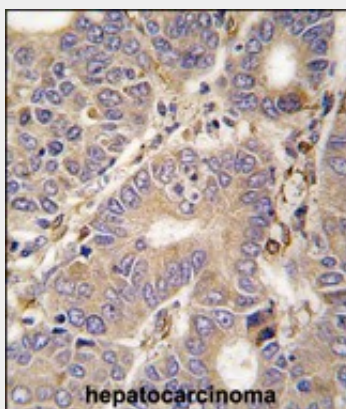
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **CARS2 Antibody (C-term) - Images**



Anti-CARS2 Antibody (C-term) at 1:1000 dilution + NCI-H460 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 62 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with CARS2 antibody (C-term) (Cat.#AP7846b), which was peroxidase-conjugated to the secondary antibody,

followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

#### **CARS2 Antibody (C-term) - Background**

CARS is a class 2 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.

It catalyzes the chemical reaction:

ATP + L-cysteine + tRNA(Cys) = AMP + diphosphate + L-cysteinyl-tRNA(Cys).

#### **CARS2 Antibody (C-term) - References**

Bonnefond L., Biochemistry 44:4805-4816(2005)