

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

CARS2 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q9HA77
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).

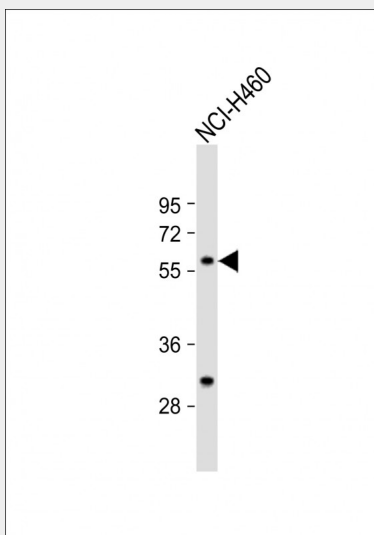
Cellular Location
Mitochondrion.

CARS2 Antibody (C-term) - Protocols

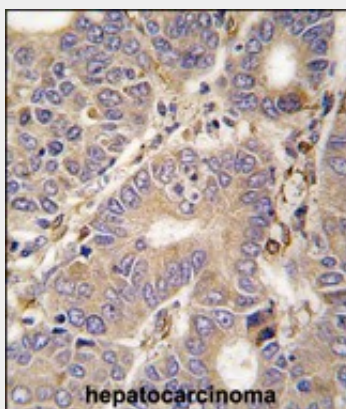
Provided below are standard protocols that you may find useful for product applications.

- [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)