

### RARS2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8590b

### Specification

# **RARS2 Antibody (C-term) - Product Information**

Application Primary Accession	FC, IHC-P, WB,E 05T160
Other Accession	<u>00P5H7</u>
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	65505
Antigen Region	369-399

# **RARS2** Antibody (C-term) - Additional Information

### Gene ID 57038

**Other Names** Probable arginine--tRNA ligase, mitochondrial, Arginyl-tRNA synthetase, ArgRS, RARS2, RARSL

### Target/Specificity

This RARS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 369-399 amino acids from the C-terminal region of human RARS2.

**Dilution** FC~~1:10~50 IHC-P~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.

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

RARS2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

# **RARS2 Antibody (C-term) - Protein Information**



Name RARS2

Synonyms RARSL

**Function** Catalyzes the attachment of arginine to tRNA(Arg) in a two- step reaction: arginine is first activated by ATP to form Arg-AMP and then transferred to the acceptor end of tRNA(Arg).

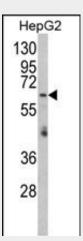
Cellular Location Mitochondrion membrane

# RARS2 Antibody (C-term) - Protocols

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

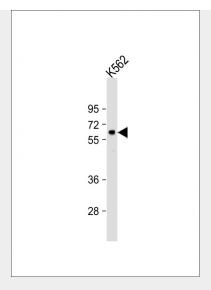
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### RARS2 Antibody (C-term) - Images

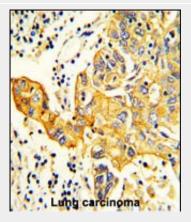


Western blot analysis of RARS2 Antibody (C-term) (Cat. #AP8590b) in HepG2 cell line lysates (35ug/lane). RARS2 (arrow) was detected using the purified Pab.

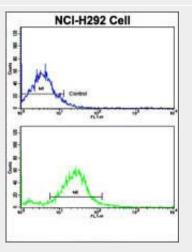




Anti-RARS2 Antibody (C-term) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 66 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human Lung carcinoma reacted with RARS2 Antibody (C-term), 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.



Flow cytometric analysis of NCI-H292 cells using RARS2 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary



antibodies were used for the analysis.

# RARS2 Antibody (C-term) - Background

RARS2 is an arginyl-tRNA synthetase that is found in the mitochondrial matrix.

# RARS2 Antibody (C-term) - References

Edvardson,S., et.al., Am. J. Hum. Genet. 81 (4), 857-862 (2007) Ewing,R.M., et.al., Mol. Syst. Biol. 3, 89 (2007) Bonnefond,L., et.al., Biochemistry 44 (12), 4805-4816 (2005)