

# RARS2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8590b

## Product Information

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|                   |                                    |
|-------------------|------------------------------------|
| Application       | WB, IHC-P, FC, E                   |
| Primary Accession | <a href="#">Q5T160</a>             |
| Other Accession   | <a href="#">Q0P5H7</a>             |
| Reactivity        | Human                              |
| Predicted         | Bovine, Mouse, Rat, Canine, Rabbit |
| Host              | Rabbit                             |
| Clonality         | Polyclonal                         |
| Isotype           | Rabbit IgG                         |
| Clone Names       | RB15683                            |
| Calculated MW     | 65505                              |
| Antigen Region    | 369-399                            |

## Additional Information

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|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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           | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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.                                                                                 |

## Protein Information

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|          |       |
|----------|-------|
| Name     | RARS2 |
| Synonyms | RARSL |

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>          | 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). |
| <b>Cellular Location</b> | Mitochondrion membrane                                                                                                                                                               |

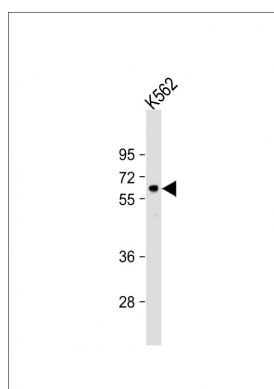
## Background

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

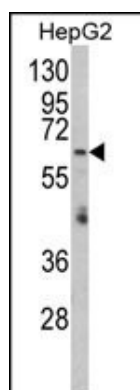
## References

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)

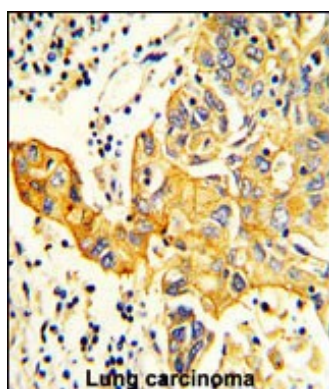
## Images



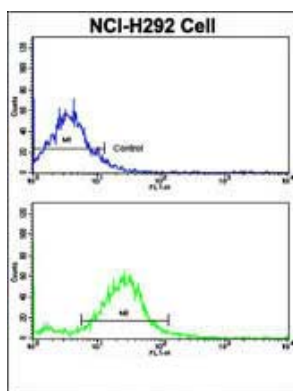
Anti-RARS2 Antibody (C-term) at 1:1000 dilution + K562 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 66 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.