

For Research Use Only

# AARS2 Polyclonal antibody

Catalog Number: 22696-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

22696-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 380 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18539

### GenBank Accession Number:

BC131728

### GeneID (NCBI):

57505

### UNIPROT ID:

Q5JTZ9

### Full Name:

alanyl-tRNA synthetase 2, mitochondrial (putative)

### Calculated MW:

985 aa, 107 kDa

### Observed MW:

105-115 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : K-562 cells,

IP : K-562 cells,

IHC : human lung cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

AARS2(Alanine--tRNA ligase, mitochondrial) is also named as KIAA1270, AARSL, bA444E17.1, AlaRS, AARSL, COXPD8, MTALARS, MT-ALARS and belongs to the class-II aminoacyl-tRNA synthetase family. It catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala). It also edits incorrectly charged tRNA(Ala) via its editing domain. The full length 107 kDa protein has a transit peptide with 23 amino acids.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ning Xu	35659036	J Hematol Oncol	WB
Jianyong Du	35395187	Cell Stem Cell	WB
Yunzi Mao	38163844	Cell Res	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

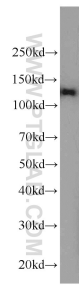
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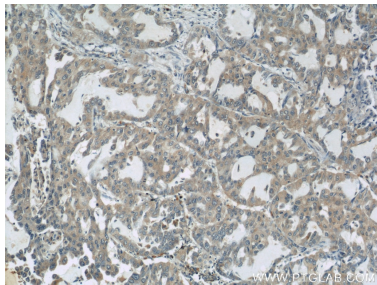
E: proteintech@ptglab.com  
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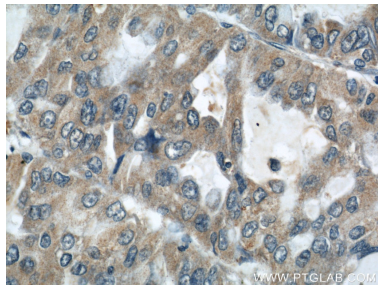
Selected Validation Data



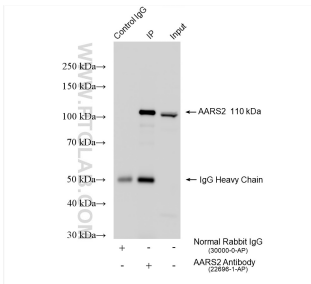
K-562 cells were subjected to SDS PAGE followed by western blot with 22696-1-AP (AARS2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer slide using 22696-1-AP (AARS2 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human lung cancer slide using 22696-1-AP (AARS2 Antibody) at dilution of 1:50.



IP result of anti-AARS2 (IP:22696-1-AP, 4ug; Detection:22696-1-AP 1:10000) with K-562 cells lysate 1600 ug.