

For Research Use Only

AARS2 Polyclonal antibody

Catalog Number: 22696-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

22696-1-AP

Concentration:

900 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18539

GenBank Accession Number:

BC131728

GeneID (NCBI):

57505

UNIPROT ID:

Q5J TZ9

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

For technical support and original validation data for this product please contact:

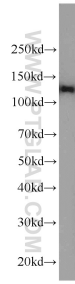
T: 4006900926

E: Proteintech-CN@ptglab.com

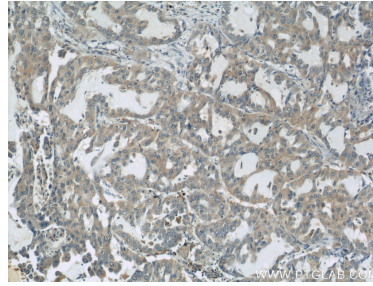
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

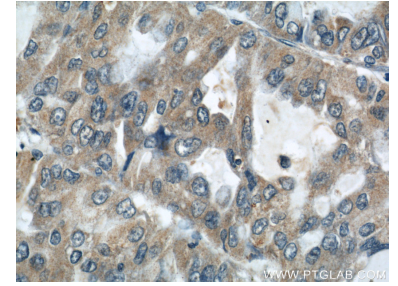
Selected Validation Data



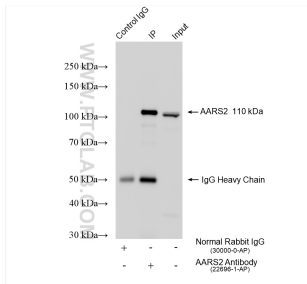
K-562 cells were subjected to SDS PAGE followed by western blot with 22696-1-AP (AARS2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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.