

For Research Use Only

AARS2 Polyclonal ANTIBODY

Catalog Number: 22696-1-AP



Basic Information

Catalog Number:

22696-1-AP

Size:

150UL, Concentration: 380 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18539

GenBank Accession Number:

BC131728

GeneID (NCBI):

57505

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 µg for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

Applications

Tested Applications:

IHC, IP, WB, ELISA

Species Specificity:

human

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

Positive Controls:

WB: K-562 cells,

IP: K-562 cells,

IHC: human lung cancer tissue,

Background Information

AARS2(Alanine--tRNA ligase, mitochondrial) is also named as KIAA1270, AARSL, bA444E17.1, AlaRS, AARSL, COXPDB, 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.

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

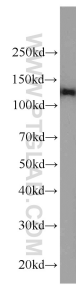
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

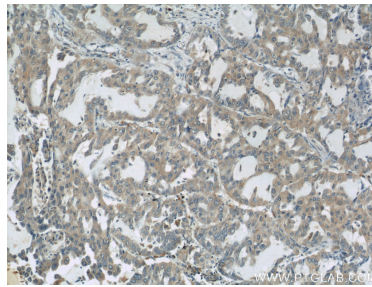
E: proteintech@ptglab.com
W: ptglab.com

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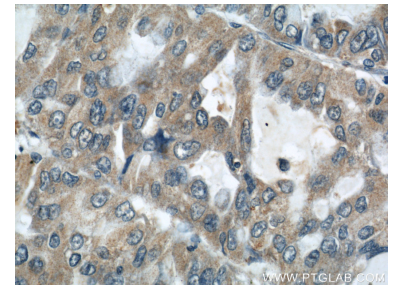
Selected Validation Data



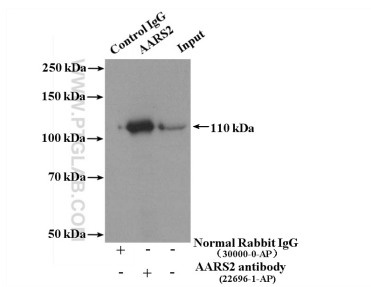
K-562 cells were subjected to SDS PAGE followed by western blot with 22696-1-AP (AARS2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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, 4 μ g; Detection:22696-1-AP 1:1000) with K-562 cells lysate 3600 μ g.