

AARS2 Polyclonal antibody

Catalog Number: 22696-1-AP

Featured Product

4 Publications

Basic Information

Catalog Number: 22696-1-AP	GenBank Accession Number: BC131728	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 650 µg/ml by Nanodrop and 380 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 57505	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
Source: Rabbit	Full Name: alanyl-tRNA synthetase 2, mitochondrial (putative)	
Isotype: IgG	Calculated MW: 985 aa, 107 kDa	
Immunogen Catalog Number: AG18539	Observed MW: 105-115 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: WB	WB: K-562 cells,
Species Specificity: human	IP: K-562 cells,
Cited Species: human, rat, mouse	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

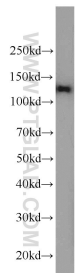
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

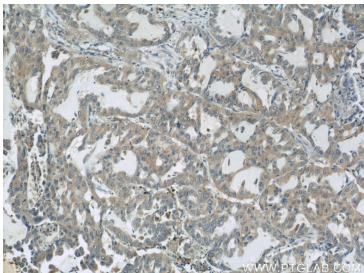
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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

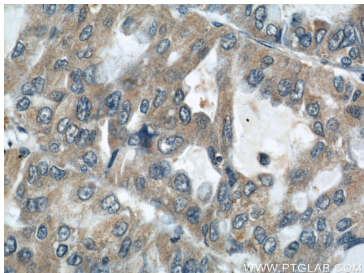
Selected Validation Data



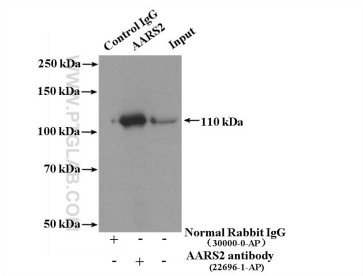
K-562 cells were subjected to SDS PAGE followed by western blot with 22696-1-AP (AARS2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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 1:1000) with K-562 cells lysate 3600ug.