

For Research Use Only

# VAR52 Polyclonal antibody

Catalog Number: 15776-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

15776-1-AP

**Size:**

300 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG8460

**GenBank Accession Number:**

BC008844

**GeneID (NCBI):**

57176

**UNIPROT ID:**

Q5ST30

**Full Name:**

valyl-tRNA synthetase 2,  
mitochondrial (putative)

**Calculated MW:**

119 kDa, 57 kDa

**Observed MW:**

118 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human

**Cited Species:**

human

**Positive Controls:**

**WB:** HeLa cells, human brain tissue, human liver  
tissue, Jurkat cells

**IP:** HeLa cells,

**IHC:** human liver cancer tissue, human ovary tumor  
tissue

**IF/ICC:** HeLa cells,

**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

VAR52 (Valine-tRNA ligase, mitochondrial) is also named as KIAA1885, VAR52L, VARSL and belongs to the class-I aminoacyl-tRNA synthetase family. The deduced 993-amino acid protein has an N-terminal mitochondrial targeting signal with a predicted cleavage site after residue 29. VAR52 has characteristics of a class I mitochondrial aminoacyl-tRNA synthetase, including a classical Rossmann fold.

## Notable Publications

Author	Pubmed ID	Journal	Application
Elham Kayvanpour	35806332	Int J Mol Sci	IHC
Elena Perli	24413190	EMBO Mol Med	IF
Fabian Baertling	27502409	Metab Brain Dis	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:

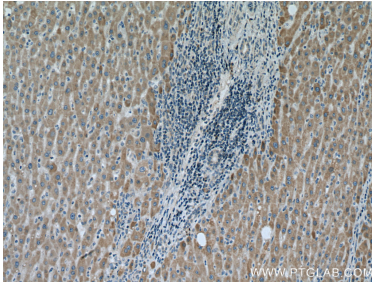
T: 4006900926

E: Proteintech-CN@ptglab.com

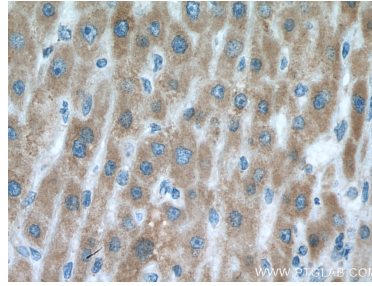
W: ptgcn.com

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

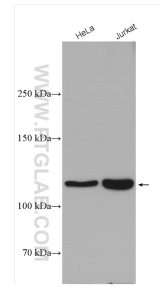
## Selected Validation Data



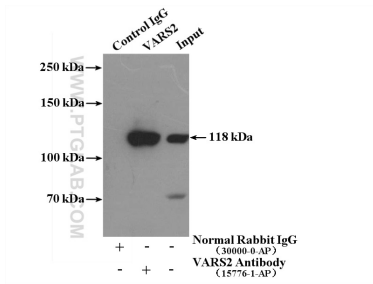
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15776-1-AP (VARS2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



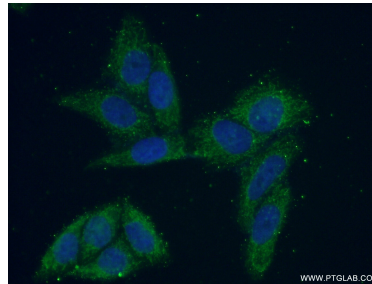
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15776-1-AP (VARS2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 15776-1-AP (VARS2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-VARS2 (IP:15776-1-AP, 4ug; Detection:15776-1-AP 1:500) with HeLa cells lysate 2400ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 15776-1-AP (VARS2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).