

For Research Use Only

# VAR52 Polyclonal antibody

Catalog Number: 15776-1-AP

Featured Product

4 Publications



## Basic Information

<b>Catalog Number:</b> 15776-1-AP	<b>GenBank Accession Number:</b> BC008844	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 300 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 57176	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> valyl-tRNA synthetase 2, mitochondrial (putative)	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 119 kDa, 57 kDa	
<b>Immunogen Catalog Number:</b> AG8460	<b>Observed MW:</b> 118 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB:</b> HeLa cells, human brain tissue, human liver tissue, Jurkat cells
<b>Species Specificity:</b> human	<b>IP:</b> HeLa cells,
<b>Cited Species:</b> human	<b>IHC:</b> human liver cancer tissue, human ovary tumor tissue
	<b>IF:</b> HeLa cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

VAR52 (Valine--tRNA ligase, mitochondrial) is also named as KIAA1885, VAR52L, VAR52L 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

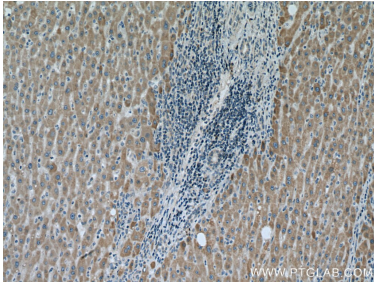
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

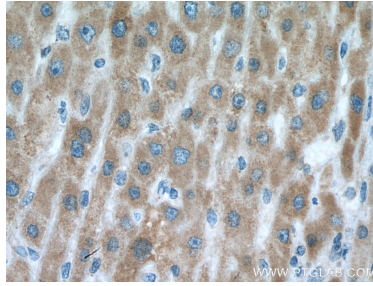
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

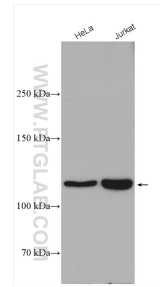
## Selected Validation Data



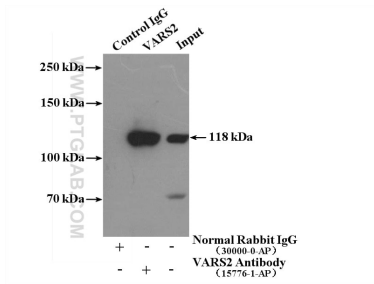
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15776-1-AP (VARs2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



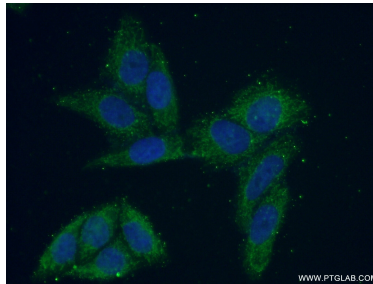
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15776-1-AP (VARs2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).