

For Research Use Only

VARS2 Polyclonal antibody

Catalog Number: 15776-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

15776-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : HeLa cells, 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

VARS2 (Valine--tRNA ligase, mitochondrial) is also named as KIAA1885, VARS2L, 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. VARS2 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

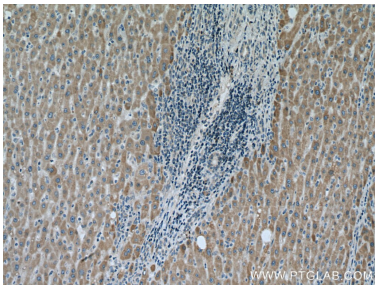
For technical support and original validation data for this product please contact:

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

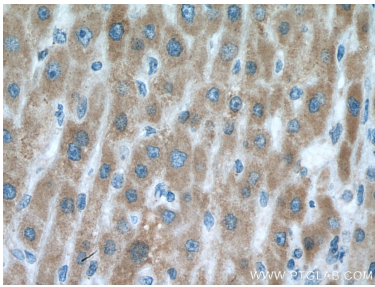
E: proteintech@ptglab.com
W: ptglab.com

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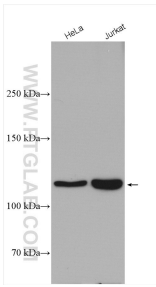
Selected Validation Data



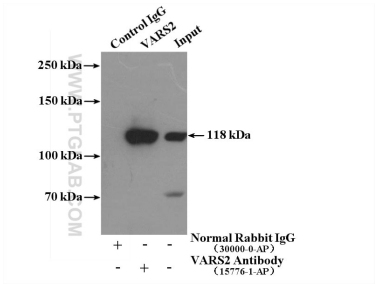
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15776-1-AP (VARS2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



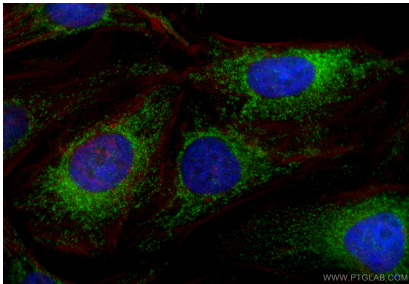
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15776-1-AP (VARS2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 (4% PFA) fixed HeLa cells using VARS2 antibody (15776-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).