

For Research Use Only

# ASNA1 Polyclonal antibody

Catalog Number: 15450-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

15450-1-AP

### Size:

227 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7713

### GenBank Accession Number:

BC002651

### GeneID (NCBI):

439

### UNIPROT ID:

O43681

### Full Name:

arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)

### Calculated MW:

38.7 kDa

### Observed MW:

37-41 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:20-1:200

IF 1:10-1:100

## Applications

### Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

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: human brain tissue, HeLa cells, human heart tissue, mouse brain tissue

IP: mouse brain tissue,

IHC: human lung cancer tissue,

IF: HepG2 cells,

## Background Information

ASNA1 (also known as TRC40) is a highly conserved ATPase involved in efflux of arsenite and antimonite. Reduced ASNA1 expression is associated with significant inhibition of cell growth, increased apoptosis and increased sensitivity to DDP and arsenite. Thus ASNA1 is proposed to be a target to overcome resistance to cancer chemotherapy. In addition, ASNA1 has been identified as an ER targeting factor for tail-anchored proteins in the posttranslational membrane insertion pathway.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yasunori Yamamoto	23041287	Mol Cell	WB
Tarik Exner	30745342	J Cell Sci	WB
Javier Coy-Vergara	31182645	J Cell Sci	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:

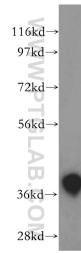
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

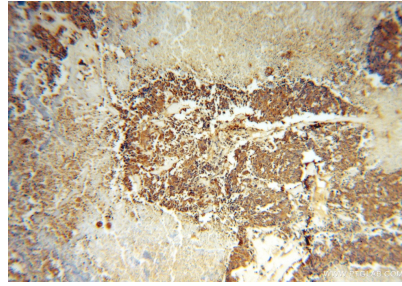
W: [ptgcn.com](http://ptgcn.com)

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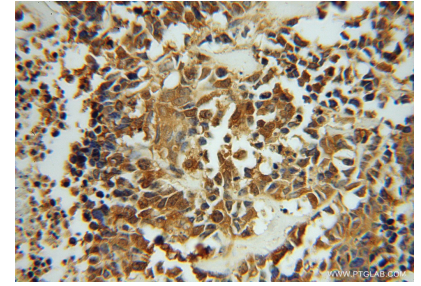
## Selected Validation Data



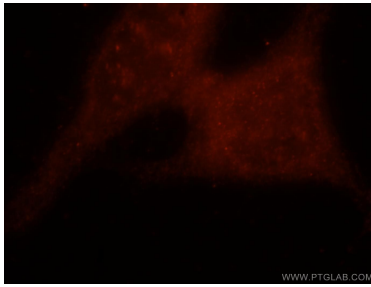
human brain tissue were subjected to SDS PAGE followed by western blot with 15450-1-AP (ASNA1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



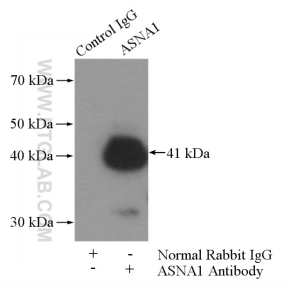
Immunohistochemical analysis of paraffin-embedded human lung cancer using 15450-1-AP (ASNA1 antibody) at dilution of 1:50 (under 10x lens).



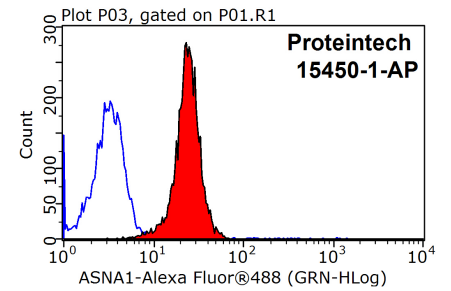
Immunohistochemical analysis of paraffin-embedded human lung cancer using 15450-1-AP (ASNA1 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using ASNA1 antibody 15450-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-ASNA1 (IP:15450-1-AP, 4ug; Detection:15450-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug ASNA1 antibody (15450-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.