For Research Use Only

ASNA1 Polyclonal antibody

Catalog Number:15450-1-AP Featured Product 7 Publications

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Basic Information

Catalog Number:
15450-1-AP

Size:
150ul , Concentration: 227 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, 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/ICC : 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, pH7.3
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
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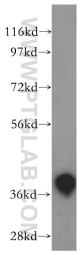
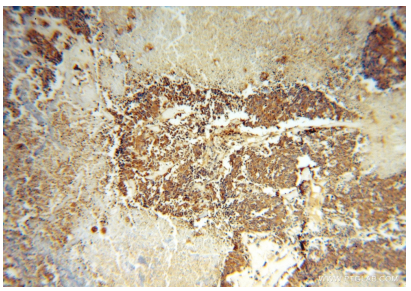
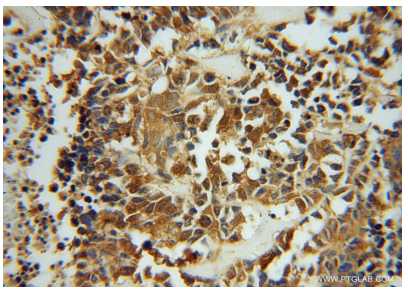
Selected Validation Data



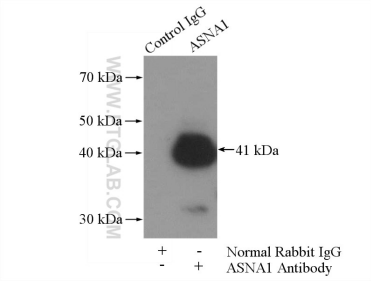
human brain tissue were subjected to SDS PAGE followed by western blot with 15450-1-AP (ASNA1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



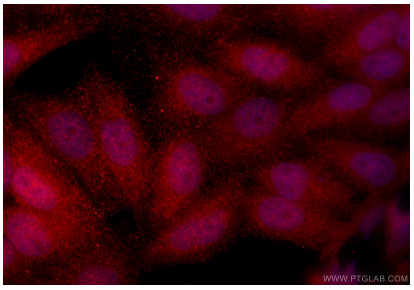
Immunohistochemical analysis of paraffin-embedded human lung cancer using 15450-1-AP (ASNA1 antibody) at dilution of 1:50 (under 10x lens).



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



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



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ASNA1 antibody (15450-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).