

For Research Use Only

ASNS Polyclonal antibody

Catalog Number: 14681-1-AP

Featured Product

46 Publications



Basic Information

Catalog Number:

14681-1-AP

Size:

150ul, Concentration: 600 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6393

GenBank Accession Number:

BC014621

GeneID (NCBI):

440

Full Name:

asparagine synthetase

Calculated MW:

64 kDa

Observed MW:

55-64 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:20-1:200

Applications

Tested Applications:

IF, IHC, IP, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human

Cited Species:

human, rat, mouse

Positive Controls:

IP: HeLa cells,

IHC: human retinoblastoma tissue, human gliomas tissue

IF: SH-SY5Y 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

Asparagine synthetase [glutamine-hydrolyzing](ASNS) is also named as TS11. The asparagine synthetase gene, encoding the enzyme that catalyzes the synthesis of asparagine and glutamate using glutamine and aspartate, is a gene for which transcription is highly regulated by the nutritional status of the cell (PMID:15385533). ASNS has some isoforms with the MW of 55-64 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------------------|-----------|---------------|-------------|
| César Vásquez-Trincado | 34550363 | Hum Mol Genet | WB |
| Shiqi Wang | 34515223 | Pharmacology | WB |
| Jie Jiang | 31659118 | J Biol Chem | 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

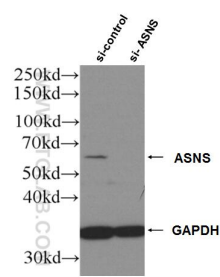
For technical support and original validation data for this product please contact:

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

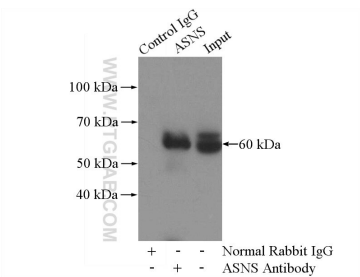
E: proteintech@ptglab.com
W: ptglab.com

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

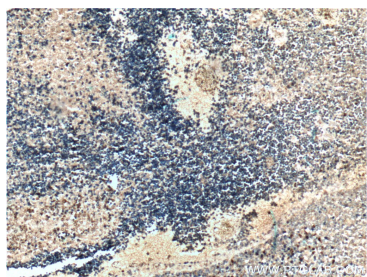
Selected Validation Data



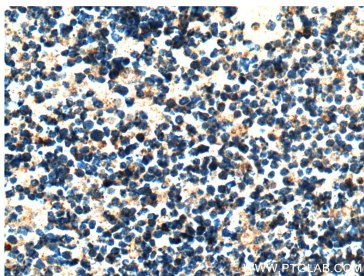
WB result of ASNS antibody (14681-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ASNS transfected Jurkat cells.



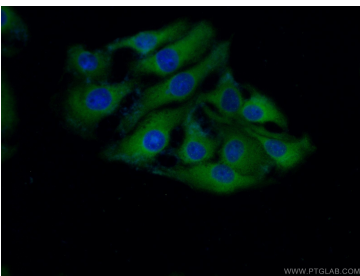
IP Result of anti-ASNS (IP:14681-1-AP, 4ug; Detection:14681-1-AP 1:500) with HeLa cells lysate 1200ug.



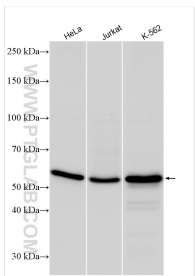
Immunohistochemical analysis of paraffin-embedded human retinoblastoma tissue slide using 14681-1-AP (ASNS Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human retinoblastoma tissue slide using 14681-1-AP (ASNS Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using 14681-1-AP (ASNS antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 14681-1-AP (ASNS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.