

For Research Use Only

# ASNS Monoclonal antibody

Catalog Number: 68004-1-Ig



## Basic Information

<b>Catalog Number:</b> 68004-1-Ig	<b>GenBank Accession Number:</b> BC014621	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 440	<b>CloneNo.:</b> 1C3D3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P08243	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Full Name:</b> asparagine synthetase	
<b>Immunogen Catalog Number:</b> AG6817	<b>Calculated MW:</b> 64 kDa	
	<b>Observed MW:</b> 55-64 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse, rat

**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 :** K-562 cells, A431 cells, LNCaP cells, HeLa cells, HEK-293 cells, NIH/3T3 cells, 4T1 cells

**IHC :** rat pancreas tissue,

**IF/ICC :** SH-SY5Y cells,

## 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.

## Storage

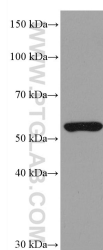
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

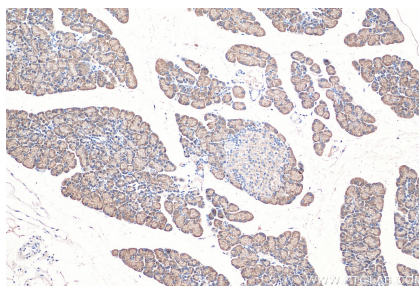
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

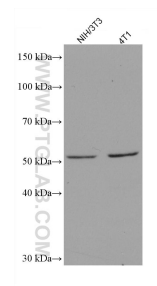
## Selected Validation Data



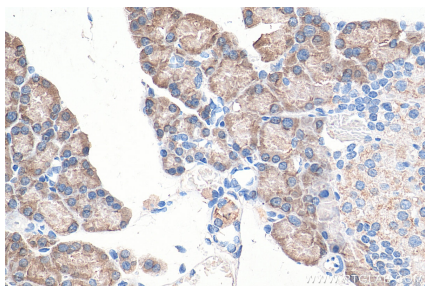
K-562 cells were subjected to SDS PAGE followed by western blot with 68004-1-Ig (ASNS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



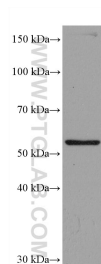
Immunohistochemical analysis of paraffin-embedded rat pancreas tissue slide using 68004-1-Ig (ASNS antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



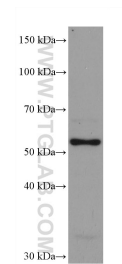
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 68004-1-Ig (ASNS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



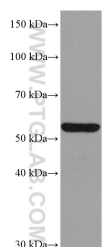
Immunohistochemical analysis of paraffin-embedded rat pancreas tissue slide using 68004-1-Ig (ASNS antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



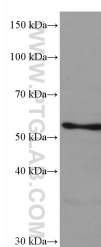
HEK-293 cells were subjected to SDS PAGE followed by western blot with 68004-1-Ig (ASNS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



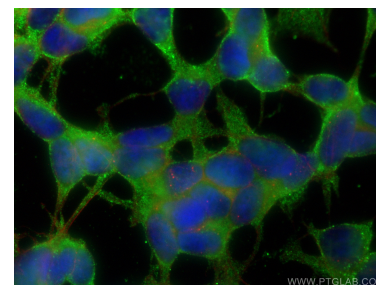
HeLa cells were subjected to SDS PAGE followed by western blot with 68004-1-Ig (ASNS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



LNCaP cells were subjected to SDS PAGE followed by western blot with 68004-1-Ig (ASNS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



A431 cells were subjected to SDS PAGE followed by western blot with 68004-1-Ig (ASNS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using ASNS antibody (68004-1-Ig, Clone: 1C3D3 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).