

For Research Use Only

NFS1 Polyclonal antibody

Catalog Number:15370-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

15370-1-AP

Size:

650 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3872

GenBank Accession Number:

BC018471

GeneID (NCBI):

9054

UNIPROT ID:

Q9Y697

Full Name:

NFS1 nitrogen fixation 1 homolog (S. cerevisiae)

Calculated MW:

50 kDa

Observed MW:

50 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 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

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 : A549 cells, HepG2 cells, HeLa cells, human heart tissue

IP : HepG2 cells,

IHC : human liver tissue, human kidney tissue, human placenta tissue, human testis tissue, human brain tissue, human spleen tissue, human ovary tissue

IF/ICC : HepG2 cells,

Background Information

NFS1(nitrogen fixation 1 homolog) is also named as NIFS, HUSSY-08 and belongs to the class-V pyridoxal-phosphate-dependent aminotransferase family. The protein has been identified as a pyridoxal phosphate-containing homodimer that catalyzes the formation of equimolar amounts of elemental sulfur and L-alanine from the substrate, L-cysteine. It is reported that NFS1 is also able to catalyze the removal of selenium from selenocysteine, a mechanism similar to the L-cysteine reaction was postulated(PMID:9812986). It has 2 isoforms produced by alternative initiation.

Notable Publications

Author	Pubmed ID	Journal	Application
Rufeng Zhang	31530015	FASEB J	WB
Ioana Ferecatu	29596470	PLoS One	WB,IF
Li Xu	35264205	J Nanobiotechnology	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:

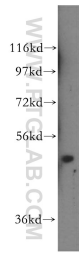
T: 4006900926

E: Proteintech-CN@ptglab.com

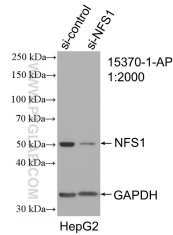
W: ptgcn.com

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

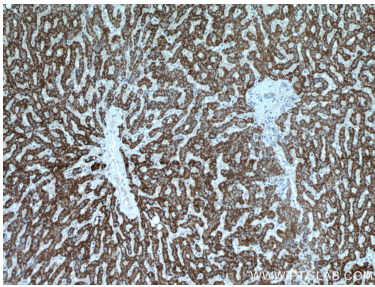
Selected Validation Data



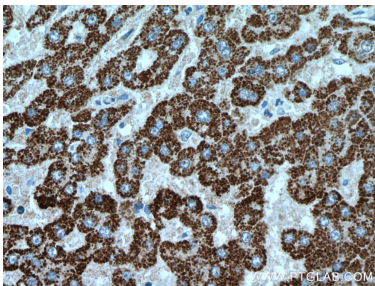
A549 cells were subjected to SDS PAGE followed by western blot with 15370-1-AP (NFS1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



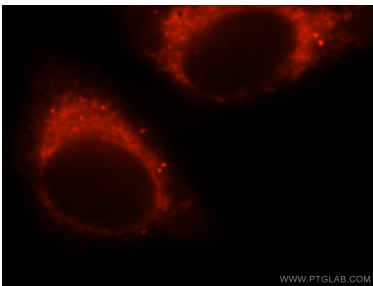
WB result of NFS1 antibody (15370-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NFS1 transfected HepG2 cells.



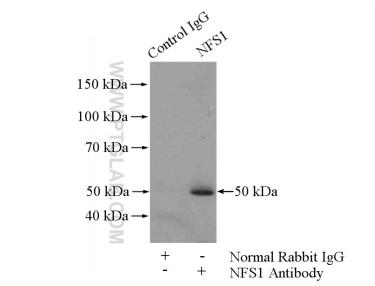
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15370-1-AP (NFS1 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15370-1-AP (NFS1 antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using NFS1 antibody 15370-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-NFS1 (IP:15370-1-AP, 4ug; Detection:15370-1-AP 1:500) with HepG2 cells lysate 3200ug.