

For Research Use Only

NFS1 Polyclonal antibody

Catalog Number: 15370-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number:
15370-1-AP

Size:
150ul, Concentration: 650 µg/ml by
Nanodrop and 393 µg/ml by Bradford
method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3872

GenBank Accession Number:
BC018471

GeneID (NCBI):
9054
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 IP and 1:500-1:1000
for WB
IHC 1:50-1:500
IF 1:10-1:100

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

**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 : 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

*** 20ul sizes contain 0.1% BSA

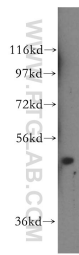
For technical support and original validation data for this product please contact:

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

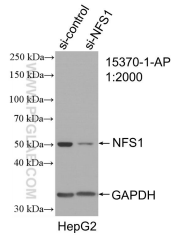
E: proteintech@ptglab.com
W: ptglab.com

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Group brand and is not available to purchase from any
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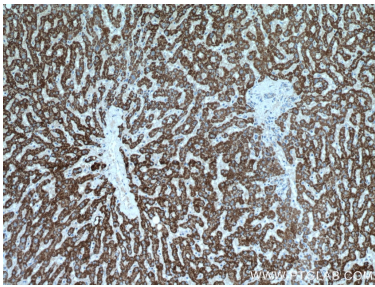
Selected Validation Data



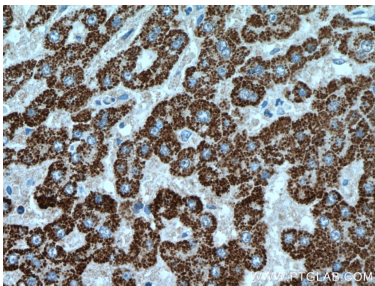
A549 cells were subjected to SDS PAGE followed by western blot with 15370-1-AP (NFS1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



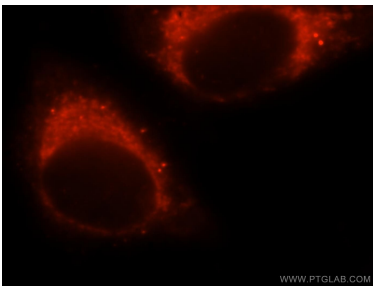
WB result of NFS1 antibody (15370-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NFS1 transfected HepG2 cells.



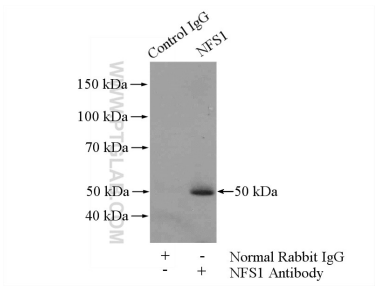
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15370-1-AP (NFS1 antibody) at dilution of 1:200 (under 10x lens).



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.