For Research Use Only

NFS1 Polyclonal antibody

Catalog Number:15370-1-AP Featured Product 10 Publications

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Basic Information

Catalog Number:
15370-1-AP

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

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 ug 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

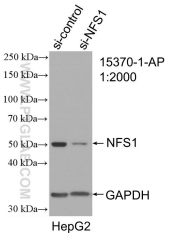
Storage

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

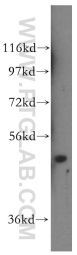
*** 20ul sizes contain 0.1% BSA

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

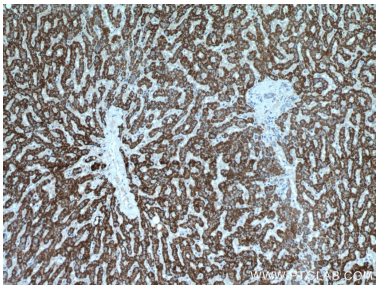
Selected Validation Data



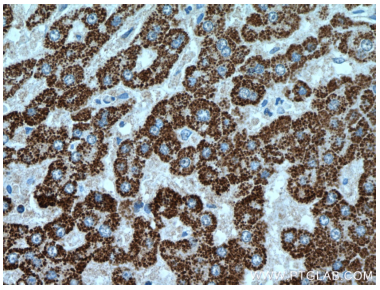
WB result of NFS1 antibody (15370-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NFS1 transfected HepG2 cells.



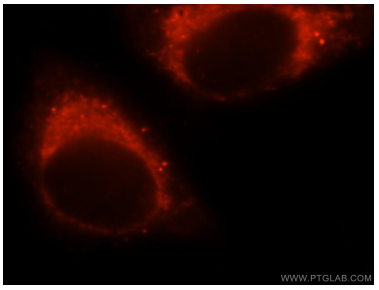
A549 cells were subjected to SDS PAGE followed by western blot with 15370-1-AP (NFS1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



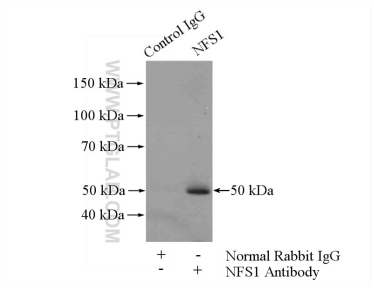
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15370-1-AP (NFS1 antibody) at dilution of 1:200 (under 10x lens).



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.