

For Research Use Only

# NFS1 Monoclonal antibody

Catalog Number: 67021-1-Ig

Featured Product



## Basic Information

Catalog Number:

67021-1-Ig

Size:

150ul, Concentration: 1700 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8017

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:

50-55 kDa

Purification Method:

Protein G purification

CloneNo.:

3A10A7

Recommended Dilutions:

WB 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HSC-T6 cells, HepG2 cells, HeLa cells, HEK-293 cells, NIH/3T3 cells, RAW 264.7 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.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% 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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# Selected Validation Data



HSC-T6 cells were subjected to SDS PAGE followed by western blot with 67021-1-Ig (NFS1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.

WB result of NFS1 antibody (67021-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NFS1 transfected HepG2 cells.