

## Mouse anti-Human NFS1 Monoclonal Antibody | anti-NFS1 antibody

Mouse monoclonal antibody Anti-Human NFS1

|                              |                      |                            |                                               |
|------------------------------|----------------------|----------------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA10614</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Dot Blot, Western Blot</b> |
|------------------------------|----------------------|----------------------------|-----------------------------------------------|

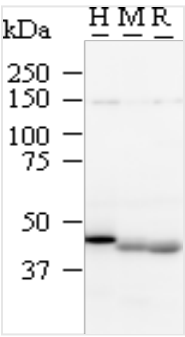
### PRODUCT SYNONYMS

NFS1; Monoclonal Antibody; Mouse monoclonal antibody Anti-Human NFS1; Homo sapiens NFS1 nitrogen fixation 1 homolog (S. cerevisiae); IscS; NIFS; HUSSY-08; anti-NFS1 antibody

### PRODUCT SPECIFICATIONS

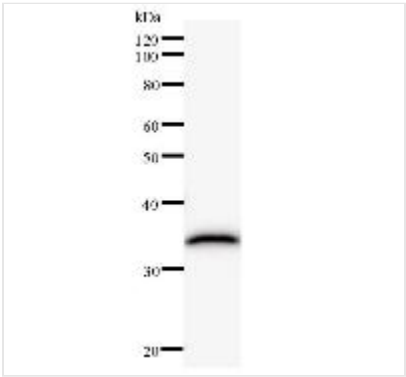
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|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Isotype                                        | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clone Number                                   | 2635E1a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Form/Format                                    | Mouse monoclonal anti-human NFS1 antibody in PBS (3.0 mM KCl, 1.5 mM KH <sub>2</sub> PO <sub>4</sub> , 140mM NaCl, 8.0mM Na <sub>2</sub> HPO <sub>4</sub> (pH 7.4)) containing 1% bovine serum albumin (BSA) and 0.05% sodium azide (NaN <sub>3</sub> ).                                                                                                                                                                                                                                                                                                                                                                        |
| Concentration                                  | 100 ug/ml (1.0 ml) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sequence Length                                | 2385                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-NFS1 antibody | DB (Dot Blot), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Application Notes                              | Recommended condition: WB: 0.2-2ug/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Preparation                                    | This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen                                      | Recombinant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sterility                                      | Filtered through a 0.22 um membrane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Disposal                                       | This antibody solution contains sodium azide (NaN <sub>3</sub> ) as a preservative. There is a potential hazard that NaN <sub>3</sub> reacts with copper or lead to produce an explosive compound. For safe disposal, the vial has to be washed thoroughly with water.                                                                                                                                                                                                                                                                                                                                                          |
| Safety warning and precautions                 | Caution must be taken to avoid contact with skin or eyes. In such a case, rinse thoroughly at once with water. Do not ingest, inhale, or swallow. Seek medical attention immediately. Wear appropriate protective clothing such as laboratory overalls, safety glasses and gloves. It is strongly advised that this product should be handled by people who have been well trained in laboratory techniques and that it is handled with care pursuant to the principles of good laboratory practice. All chemicals are deemed potentially harmful. The vial is prone to fall over. Use caution, especially when the lid is off. |
| Preparation and Storage                        | Store at 2-8 degree C for up to one year. We recommend storing at -20 degree C for long-term storage. Avoid repeat freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

IMAGES



**Quality Control**  
Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.

**WB (Western Blot)**  
Detection of NFS1 by Western blot. Samples: Whole cell lysate from human HEK293 (H, 25 ug), mouse NIH3T3 (M, 25 ug) and rat F2408 (R, 25 ug) cells. [Lot No. 2635E1a-1] Predicted molecular weight: 50 kDa



**Quality Control**  
Western blot analysis of immunized recombinant protein, using anti-NFS1 monoclonal antibody.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-NFS1 antibody | Iron-sulfur clusters are required for the function of many cellular enzymes. The protein encoded by this gene supplies inorganic sulfur to these clusters by removing the sulfur from cysteine, creating alanine in the process. This gene uses alternate in-frame translation initiation sites to generate mitochondrial forms and cytoplasmic/nuclear forms. Selection of the alternative initiation sites is determined by the cytosolic pH. The encoded protein belongs to the class-V family of pyridoxal phosphate-dependent aminotransferases. [NCBI Entrez Gene Summary] |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 312222766                                                                                                                                                    |
| NCBI GeneID                      | 9054                                                                                                                                                         |
| NCBI Accession #                 | NP_066923.3                                                                                                                                                  |
| NCBI GenBank Nucleotide #        | NM_021100                                                                                                                                                    |
| Molecular Weight                 | 44,362 Da                                                                                                                                                    |
| NCBI Official Full Name          | Homo sapiens NFS1 cysteine desulfurase (NFS1), transcript variant 1, mRNA                                                                                    |
| NCBI Official Synonym Full Names | NFS1 cysteine desulfurase                                                                                                                                    |
| NCBI Official Symbol             | NFS1                                                                                                                                                         |
| NCBI Official Synonym Symbols    | IscS; NIFS; HUSSY-08                                                                                                                                         |
| NCBI Protein Information         | cysteine desulfurase, mitochondrial; NFS1 nitrogen fixation 1 homolog; nitrogen fixation 1 (S. cerevisiae, homolog); nitrogen-fixing bacteria S-like protein |

|                      |                                     |
|----------------------|-------------------------------------|
| UniProt Protein Name | Cysteine desulfurase, mitochondrial |
| UniProt Gene Name    | <b>NFS1</b>                         |
| UniProt Entry Name   | NFS1_HUMAN                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/nfs1-antibody-clone-2635e1a-dot-blot-western-blot-elisa/10614>