

Datasheet for ABIN7599676
anti-NFS1 antibody (AA 107-356)



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Overview

Quantity:	100 µg
Target:	NFS1
Binding Specificity:	AA 107-356
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NFS1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-NFS1 Antibody Picoband®
Immunogen:	E.coli-derived human NFS1 recombinant protein (Position: R107-L356). Human NFS1 shares 96.4% and 96% amino acid (aa) sequence identity with mouse and rat NFS1, respectively.
Characteristics:	Anti-NFS1 Antibody Picoband® (ABIN7599676). Tested in WB, IP, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	NFS1
Alternative Name:	NFS1 (NFS1 Products)
Background:	Cysteine desulfurase, mitochondrial is an enzyme that in humans is encoded by the NFS1 gene. Iron-sulfur clusters are required for the function of many cellular enzymes. The proteins encoded by this gene supply 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 proteins belong to the class-V family of pyridoxal phosphate-dependent aminotransferases. Alternatively spliced transcript variants have been described.
Molecular Weight:	45 kDa
Gene ID:	9054
UniProt:	Q9Y697
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunoprecipitation, 0.5-2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Alvarez, S. W., Sviderskiy, V. O., Terzi, E. M., Papagiannakopoulos, T., Moreira, A. L., Adams, S., Sabatini, D. M., Birsoy, K., Possemato, R. NFS1 undergoes positive selection in lung tumours and protects cells from ferroptosis. Nature 551: 639-643, 2017. Note: Erratum: Nature 609: E12, 2022. 2. Biederbick, A., Stehling, O., Rosser, R., Niggemeyer, B., Nakai, Y., Elsasser, H.-P., Lill, R. Role of human mitochondrial Nfs1 in cytosolic iron-sulfur protein biogenesis and iron regulation. Molec. Cell. Biol. 26: 5675-5687, 2006. 3. Farhan, S. M. K., Wang, J., Robinson, J. F., Lahiry P., Siu, V. M., Prasad, C., Kronick, J. B., Ramsay, D. A., Rupar C. A., Hegele, R. A. Exome sequencing identifies NFS1 deficiency in a novel Fe-S cluster disease, infantile mitochondrial complex II/III deficiency. Molec. Genet. Genomic Med. 2: 73-80, 2014.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.