

SFXN1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20281b

Specification

SFXN1 Antibody (C-term) - Product Information

WB,E Application **Primary Accession** O9H9B4 NP 073591.2 Other Accession Reactivity Human Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 35619 Antigen Region 293-321

SFXN1 Antibody (C-term) - Additional Information

Gene ID 94081

Other Names

Sideroflexin-1, Tricarboxylate carrier protein, TCC, SFXN1

Target/Specificity

This SFXN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 293-321 amino acids from the C-terminal region of human SFXN1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SFXN1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SFXN1 Antibody (C-term) - Protein Information

Name SFXN1 (HGNC:16085)

Function Amino acid transporter importing serine, an essential substrate of the mitochondrial



branch of the one-carbon pathway, into mitochondria. Mitochondrial serine is then converted to glycine and formate, which exits to the cytosol where it is used to generate the charged folates that serve as one-carbon donors (PubMed:30442778). May also transport other amino acids including alanine and cysteine (PubMed:30442778).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

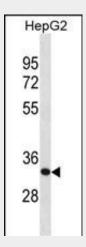
Highly expressed in tissues with high one-carbon metabolism activity, such as blood, liver and kidney

SFXN1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SFXN1 Antibody (C-term) - Images



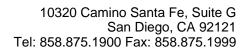
SFXN1 Antibody (C-term) (Cat. #AP20281b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the SFXN1 antibody detected the SFXN1 protein (arrow).

SFXN1 Antibody (C-term) - Background

Might be involved in the transport of a component required for iron utilization into or out of the mitochondria.

SFXN1 Antibody (C-term) - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007): Siculella, L., et al. FEBS Lett. 578(3):280-284(2004) Siculella, L., et al. J. Lipid Res. 45(7):1333-1340(2004)





Giudetti, A.M., et al. J. Lipid Res. 44(11):2135-2141(2003) Miyake, S., et al. Biochem. Biophys. Res. Commun. 295(2):463-468(2002)