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FH Antibody (N-term) (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2120a

Specification

FH Antibody (N-term) (Ascites) - Product Information

Application	**WB,E**
Primary Accession	P07954
Other Accession	P14408, P10173, Q60HF9, NP_000134.2
Reactivity	**Human**
Predicted	**Monkey, Pig, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgM**
Calculated MW	**54637**
Antigen Region	**35-63**

FH Antibody (N-term) (Ascites) - Additional Information

Gene ID 2271

Other Names
Fumarate hydratase, mitochondrial, Fumarase, FH

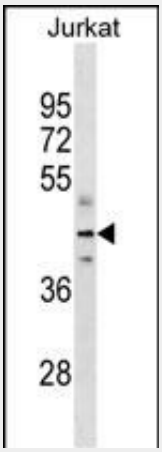
Target/Specificity
This FH antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 35-63 amino acids from the N-terminal region of human FH.

Dilution
WB~~1:100~1600

Format
Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

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
FH Antibody (N-term) (Ascites) is for



FH Antibody (N-term)(Ascites)(Cat. #AM2120a) western blot analysis in Jurkat cell line lysates (35µg/lane).This demonstrates the FH antibody detected the FH protein (arrow).

FH Antibody (N-term) (Ascites) - Background

The protein encoded by this gene is an enzymatic component of the tricarboxylic acid (TCA) cycle, or Krebs cycle, and catalyzes the formation of L-malate from fumarate. It exists in both a cytosolic form and an N-terminal extended form, differing only in the translation start site used. The N-terminal extended form is targeted to the mitochondrion, where the removal of the extension generates the same form as in the cytoplasm. It is similar to some thermostable class II fumarases and functions as a homotetramer. Mutations in this gene can cause fumarase deficiency and lead to progressive encephalopathy.

FH Antibody (N-term) (Ascites) - References

research use only and not for use in diagnostic or therapeutic procedures.

FH Antibody (N-term) (Ascites) - Protein Information

Name FH {ECO:0000303|PubMed:27037871, ECO:0000312|HGNC:HGNC:3700}

Function
Catalyzes the reversible stereospecific interconversion of fumarate to L-malate (PubMed:30761759). Experiments in other species have demonstrated that specific isoforms of this protein act in defined pathways and favor one direction over the other (Probable).

Cellular Location
[Isoform Mitochondrial]: Mitochondrion

Tissue Location
Expressed in red blood cells; underexpressed in red blood cells (cytoplasm) of patients with hereditary non-spherocytic hemolytic anemia of unknown etiology.

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
Allegri, G., et al. J. Inherit. Metab. Dis. 33(4):411-419(2010)
Yogev, O., et al. PLoS Biol. 8 (3), E1000328 (2010) :
Yang, Y., et al. Cancer Genet. Cytogenet. 196(1):45-55(2010)
Rikova, K., et al. Cell 131(6):1190-1203(2007)

FH Antibody (N-term) (Ascites) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture