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FH Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP18400a

Specification

FH Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P07954

FH Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 2271

Other Names
Fumarate hydratase, mitochondrial, Fumarase, FH

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FH Antibody (N-term) Blocking Peptide - 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.

FH Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

FH Antibody (N-term) Blocking Peptide - Images

FH Antibody (N-term) Blocking Peptide - Background

The protein encoded by this gene is an enzymatic componentof the tricarboxylic acid (TCA) cycle, or Krebs cycle, andcatalyzes the formation of L-malate from fumarate. It exists inboth a cytosolic form and an N-terminal extended form, differingonly in the translation start site used. The N-terminal extendedform is targeted to the mitochondrion, where the removal of theextension generates the same form as in the cytoplasm. It issimilar to some thermostable class II fumarases and functions as ahomotetramer. Mutations in this gene can cause fumarase deficiencyand lead to progressive encephalopathy.

FH Antibody (N-term) Blocking Peptide - References

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)