

FH Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10963a**Specification**

FH Antibody (N-term) Blocking peptide - Product InformationPrimary 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 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) 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)