

ATPIF1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP18944a**Specification**

ATPIF1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9UII2](#)**ATPIF1 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 93974

Other Names

ATPase inhibitor, mitochondrial, Inhibitor of F(1)F(o)-ATPase, IF(1), IF1, ATPIF1, ATPi

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.

ATPIF1 Antibody (N-term) Blocking Peptide - Protein InformationName ATP5IF1 ([HGNC:871](#))

Synonyms ATPi, ATPIF1

Function

Endogenous F(1)F(o)-ATPase inhibitor limiting ATP depletion when the mitochondrial membrane potential falls below a threshold and the F(1)F(o)-ATP synthase starts hydrolyzing ATP to pump protons out of the mitochondrial matrix. Required to avoid the consumption of cellular ATP when the F(1)F(o)-ATP synthase enzyme acts as an ATP hydrolase. Indirectly acts as a regulator of heme synthesis in erythroid tissues: regulates heme synthesis by modulating the mitochondrial pH and redox potential, allowing FECH to efficiently catalyze the incorporation of iron into protoporphyrin IX to produce heme.

Cellular Location

Mitochondrion.

ATPIF1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ATPIF1 Antibody (N-term) Blocking Peptide - Images

ATPIF1 Antibody (N-term) Blocking Peptide - Background

This gene encodes a mitochondrial ATPase inhibitor. Alternative splicing occurs at this locus and three transcript variants encoding distinct isoforms have been identified. [provided by RefSeq].

ATPIF1 Antibody (N-term) Blocking Peptide - References

Sanchez-Cenizo, L., et al. J. Biol. Chem. 285(33):25308-25313(2010) Rose, J.E., et al. Mol. Med. 16(7-8), 247-253 (2010) :Li, N., et al. Int. J. Neurosci. 120(3):217-221(2010) Contessi, S., et al. J. Bioenerg. Biomembr. 39(4):291-300(2007) Ma, J., et al. Atherosclerosis 191(1):63-72(2007)