

ATPIF1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18944a**Specification**

ATPIF1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9UII2
Other Accession	NP_057395.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	12249
Antigen Region	8-35

ATPIF1 Antibody (N-term) - Additional Information**Gene ID** 93974**Other Names**

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

Target/Specificity

This ATPIF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-35 amino acids from the N-terminal region of human ATPIF1.

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

ATPIF1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ATPIF1 Antibody (N-term) - Protein Information**Name** 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

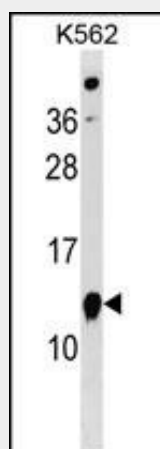
Mitochondrion.

ATPIF1 Antibody (N-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ATPIF1 Antibody (N-term) - Images



ATPIF1 Antibody (N-term) (Cat. #AP18944a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the ATPIF1 antibody detected the ATPIF1 protein (arrow).

ATPIF1 Antibody (N-term) - 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) - 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)