

Rabbit ATPIF1 Polyclonal Antibody | anti-ATPIF1 antibody

ATPIF1 Antibody

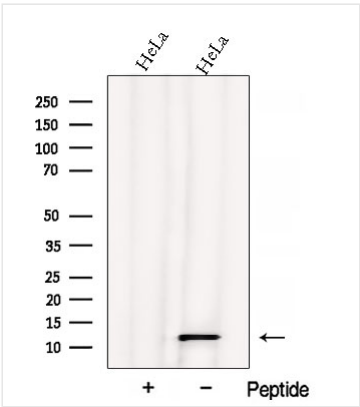
CATALOG # AAA328783	HOST Rabbit	REACTIVITY Human, Mouse, Monkey Predicted: Pig, Bovine	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

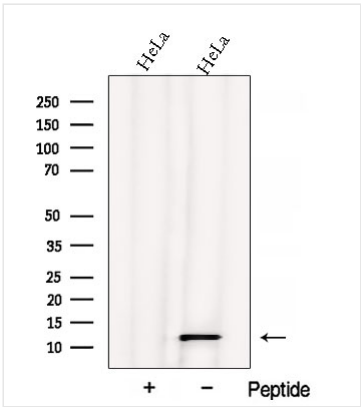
ATPIF1; Polyclonal Antibody; ATPIF1 Antibody; ATIF1_HUMAN; ATP synthase inhibitor protein; ATPase inhibitor; ATPase inhibitor mitochondrial; ATPase inhibitor protein; ATPase inhibitory factor 1; ATPi; ATPIF 1; Atpif1; ATPIP; IF(1); IF1; Inhibitor of F(1)F(o)-ATPase; IP; MGC1167; MGC8898; mitochondrial; anti-ATPIF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Monkey Predicted: Pig, Bovine
Clonality	Polyclonal
Isotype	IgG
Specificity	ATPIF1 Antibody detects endogenous levels of ATPIF1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	106
Applicable Applications for anti-ATPIF1 antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATPIF1.
Fragment	Fab Fragment
Conjugate	Unconjugated
Subcellular Location	Mitochondrion
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using ATPIF1 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from COS-7, using ATPIF1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ATPIF1 antibody	Description: Endogenous F1F(o)-ATPase inhibitor limiting ATP depletion when the mitochondrial membrane potential falls below a threshold and the F1F(o)-ATP synthase starts hydrolyzing ATP to pump protons out of the mitochondrial matrix. Required to avoid the consumption of cellular ATP when the F1F(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.
	Post Translational Modifications: Exhibits variability in chain length, mitochondria have distinct pools of protein cleaved after the 24th, 25th, and 26th amino acid.
	Subunit Structure: Homodimer; represents the active form and is present at a pH value below 6.5. Homotetramer; represents the inactive form and is present at a pH value above 7.0 (By similarity).
	Similarity: Forms an alpha-helical dimer with monomers associated via an antiparallel alpha-helical coiled coil composed of residues 74-106, leaving each N-terminal inhibitory region (residues 26-52) accessible for interaction with an F1 catalytic domain. The inhibitory N-terminal region (residues 26-52) binds the alpha(ADP-bound)-beta(ADP-bound) (ATP5F1A-ATP5F1B) interface of F1-ATPase, and also contact the central gamma subunit (ATP5F1C). This dimeric state is favored by pH values below 7.0, and at higher values the dimers associate to form inactive homotetramer, where the inhibitory region is occluded, masking its inhibitory activity (By similarity). Belongs to the ATPase inhibitor family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	12585262
NCBI GeneID	93974
UniProt Accession #	Q9UII2
Molecular Weight	Observed: 12 kDa Predicted: 13 kDa
NCBI Official Full Name	ATPase inhibitor, mitochondrial
NCBI Official Synonym Full Names	ATP synthase inhibitory factor subunit 1
NCBI Official Symbol	ATP5IF1
NCBI Official Synonym Symbols	IP; ATPi; ATPiP; ATPiF1
NCBI Protein Information	ATPase inhibitor, mitochondrial
UniProt Protein Name	ATPase inhibitor, mitochondrial

UniProt Gene Name	ATPIF1
UniProt Synonym Gene Names	ATPI; IF(1); IF1
UniProt Entry Name	ATIF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atpif1-antibody-western-blot-elisa/328783>