

Rabbit anti-Human ATPase Inhibitory Factor 1 Polyclonal Antibody | anti-ATP5IF1 antibody

Anti-ATPase Inhibitory Factor 1 Antibody, Rabbit Polyclonal

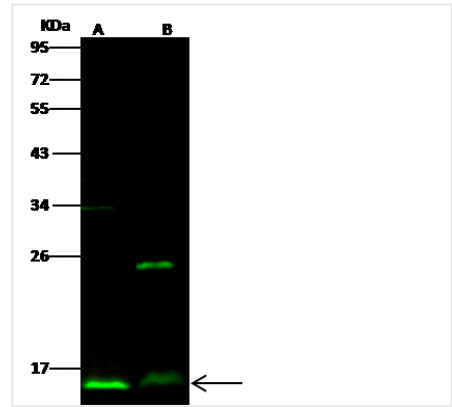
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254792	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

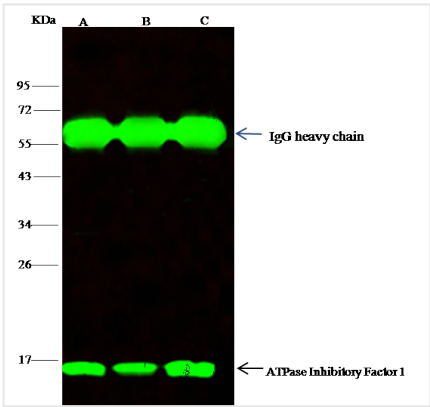
ATPase Inhibitory Factor 1; Polyclonal Antibody; Anti-ATPase Inhibitory Factor 1 Antibody; Rabbit Polyclonal; ATPase Inhibitory Factor 1 Antibody; Rabbit PAb; Antigen Affinity Purified; ATPase inhibitory factor 1; Anti-ATPI Antibody; Anti-ATPIF1 Antibody; Anti-ATPIP Antibody; Anti-IP Antibody; anti-ATP5IF1 antibody

PRODUCT SPECIFICATIONS

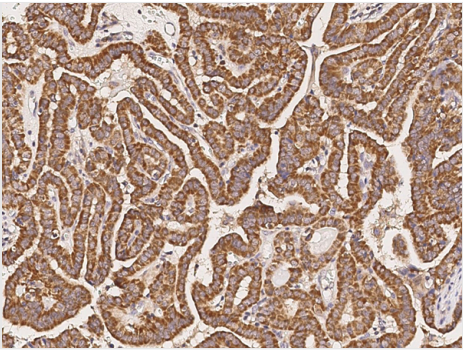
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human ATPase Inhibitory Factor 1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ATP5IF1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human ATPase Inhibitory Factor 1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human ATPase Inhibitory Factor 1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-ATPIF1 rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lane B: A431 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 12 kDa Observed band size: 15 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)
ATPIF1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 4 uL anti-ATPIF1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-ATPIF1 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 16 kDa Observed band size: 16 kDa



IHC (Immunohistochemistry)
Immunochemical staining of human ATPIF1 in human thyroid cancer with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-ATP5IF1 antibody	Heme oxygenase-1 (HO-1) and ATPase inhibitory factor (ATPIF) 1 is often overexpressed in different types of cancer cells. To gain a physiological significance, we treated the synthetic flavonoids in colon cancer cells, HT29 and HCT116 cells and confirmed that overexpression of both HO-1 and ATPIF1 was critical for tumor cell death with an impaired mitochondrial energetics. It would provide a strategy for developing selective anti-tumor candidates. A transgene-based model of a heteroplasmic lethal mtDNA deletion (mtDNA Δ) in adult <i>Drosophila</i> muscle. Stimulation of autophagy, activation of the PINK1/parkin pathway or decreased levels of mitofusin result in a selective decrease in mtDNA Δ . Decreased levels of mitofusin and increased levels of ATPIF1, an inhibitor of ATP synthase reversal-dependent mitochondrial repolarization, result in a further decrease in mtDNA Δ levels. The loss of ATPIF1 strongly protects against antimycin-induced ETC dysfunction and cell death by allowing for the maintenance of mitochondrial membrane potential. Inhibition of ATPIF1 ameliorates complex III blockade in primary hepatocytes, a cell type afflicted in severe mitochondrial disease, that inhibition of ATPIF1 can ameliorate severe ETC dysfunction in mitochondrial pathology.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12585262
NCBI GeneID	93974
UniProt Accession #	Q9UII2; Q5JXL8; Q6IAQ7; Q9BSL9
Molecular Weight	106

NCBI Official Full Name	ATPase inhibitor, mitochondrial
NCBI Official Synonym Full Names	ATPase inhibitory factor 1
NCBI Official Symbol	ATPIF1
NCBI Official Synonym Symbols	IP; ATPi; ATPIP
NCBI Protein Information	ATPase inhibitor, mitochondrial; IF1; ATPase inhibitor protein; inhibitor of F(1)F(o)-ATPase; ATP synthase inhibitor protein
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://stage.aaabiotech.com/polyclonal/atpase-inhibitory-factor-1-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/254792>