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Datasheet for ABIN1706498

anti-ATPase Inhibitory Factor 1 antibody (AA 26-106) (Cy5.5)

Overview

Quantity:	100 µL
Target:	ATPase Inhibitory Factor 1 (ATPIF1)
Binding Specificity:	AA 26-106
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATPase Inhibitory Factor 1 antibody is conjugated to Cy5.5
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ATPIF1/ATPase Inhibitory Factor 1
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	ATPase Inhibitory Factor 1 (ATPIF1)
Alternative Name:	ATP1/ATPase Inhibitory Factor 1 (ATPIF1 Products)
Background:	Synonyms: AT1_HUMAN, ATP synthase inhibitor protein, ATPase inhibitor, ATPase inhibitor

Target Details

mitochondrial, ATPase inhibitor protein, ATPase inhibitory factor 1, ATPI, ATP 1, ATP1, ATPIP, 1, 1, Inhibitor of F1Fo-ATPase, IP, MGC1167, MGC8898, mitochondrial.

Background: Mitochondrial ATP synthases (ATPases) transduce the energy contained in membrane electrochemical proton gradients into the energy required for synthesis of high-energy phosphate bonds. ATPases contain two linked complexes: F1, the hydrophilic catalytic core, and F0, the membrane-embedded protein channel. F1 consists of three Alpha chains and three Beta chains, which are weakly homologous, as well as one Gamma chain, one Delta chain and one Gamma chain. F0 consists of three subunits: a, b and c. A mitochondrial F1-ATPase inhibitor protein, ATPIF1 (ATPase inhibitory factor 1), also known as IP, IF1, ATPI or ATPIP (ATPase inhibitor protein), binds to the C-terminal region of a Beta subunit of the F1-ATPase at low pH values and, via interference of the Beta and Gamma subunit interaction, ATPIF1 regulates the activity of the F1F0-ATPase. This reversible ATPIF1 binding to F1F0-ATPase also occurs on the surface of endothelial cells.

Gene ID: 93974

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months