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Datasheet for ABIN1708309

anti-ATPase Inhibitory Factor 1 antibody (AA 26-106) (Cy7)

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 Cy7 |
| 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, ATP1, ATP 1, ATP1, ATP1P, 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, ATP1F1 (ATPase inhibitory factor 1), also known as IP, IF1, ATP1 or ATP1P (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, ATP1F1 regulates the activity of the F1F0-ATPase. This reversible ATP1F1 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