

Datasheet for ABIN3043795
anti-ATP5H antibody (AA 2-161)

5 Images

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Overview

Quantity:	100 µg
Target:	ATP5H
Binding Specificity:	AA 2-161
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5H antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for ATP synthase subunit d, mitochondrial(ATP5H) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	E.coli-derived human ATP5H recombinant protein (Position: A2-L161). Human ATP5H shares 81% and 78% amino acid (aa) sequence identity with mouse and rat ATP5H, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for ATP synthase subunit d, mitochondrial(ATP5H) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat. Gene Name: ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit d Protein Name: ATP synthase subunit d, mitochondrial

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: ATP5H

Alternative Name: ATP5H ([ATP5H Products](#))

Background: ATP5H is also known as ATPQ. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15.

Synonyms: ATP synthase D chain mitochondrial antibody|ATP synthase H⁺ transporting mitochondrial F1F0 subunit antibody|ATP synthase H⁺ transporting mitochondrial F1F0 subunit d antibody|ATP synthase subunit d antibody|ATP synthase subunit d, mitochondrial antibody|ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit d antibody|ATP5H antibody|ATP5H_HUMAN antibody|ATP5JD antibody|ATPase subunit d antibody|ATPQ antibody|mitochondrial antibody|My032 protein antibody

Gene ID: 10476

UniProt: [O75947](#)

Pathways: [Proton Transport](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for ATP5H is approximately 0.1 ng/lane under reducing conditions.

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human

Application Details

Notes: Tested Species: Species with positive results. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

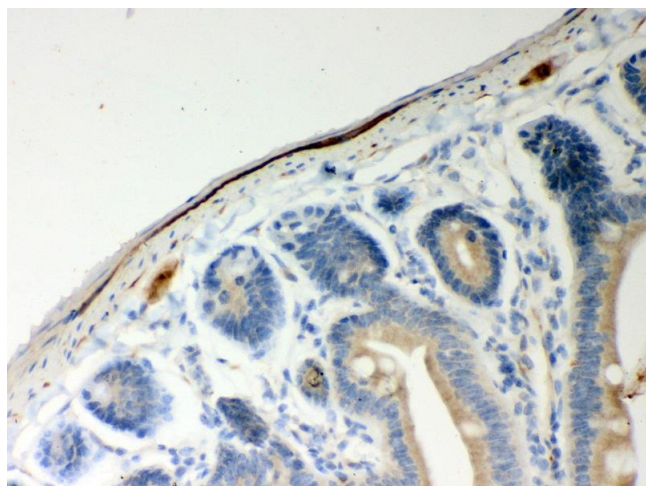
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

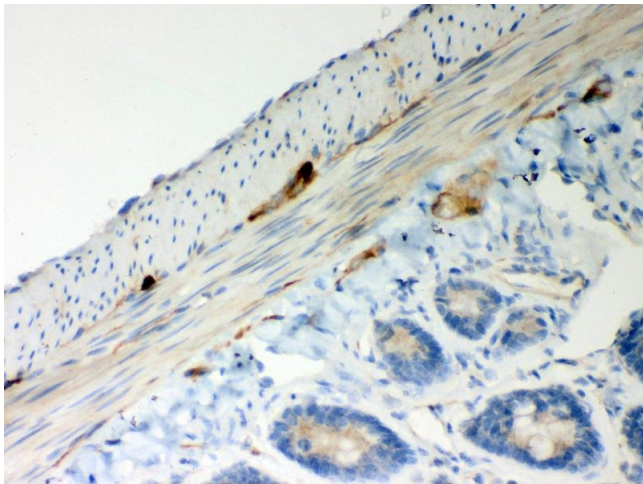
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



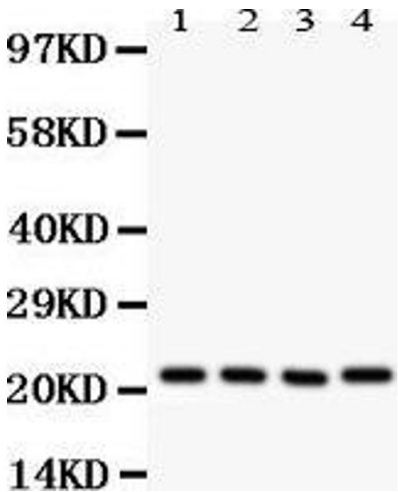
Immunohistochemistry

Image 1. Anti- ATP5H Picoband antibody,IHC(P) IHC(P):
Mouse Intestine Tissue



Immunohistochemistry

Image 2. Anti- ATP5H Picoband antibody,IHC(P) IHC(P): Rat Intestine Tissue



Western Blotting

Image 3. Anti- ATP5H Picoband antibody, Western blotting
All lanes: Anti ATP5H at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Lane 3: Human Placenta Tissue Lysate at 50ug Lane 4: HELA Whole Cell Lysate at 40ug Predicted bind size: 22KD
Observed bind size: 22KD

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043795.