

## ARG58311 anti-ATP5H antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes ATP5H
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATP5H
Species	Human
Immunogen	Human ATP5H recombinant protein (Position: A2-L161). Human ATP5H shares 81% and 78% amino acid (aa) sequence identity with Mouse and Rat ATP5H, respectively.
Conjugation	Un-conjugated
Alternate Names	ATPQ; ATP synthase subunit d, mitochondrial; ATPase subunit d

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: By heat mediation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

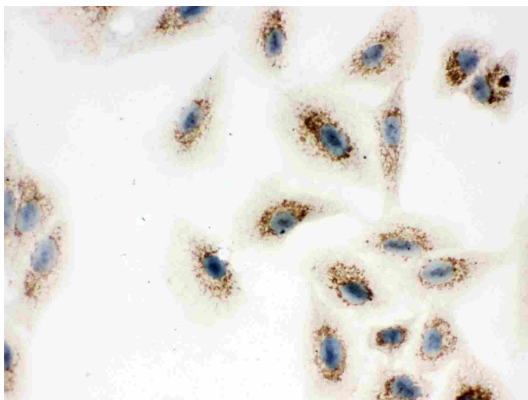
Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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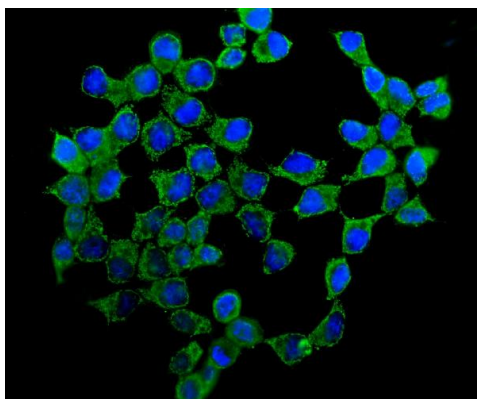
Gene Symbol	ATP5H
Gene Full Name	ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex, subunit d
Background	Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of 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. [provided by RefSeq, Jun 2010]
Function	Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F(0) domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements. [UniProt]
Calculated Mw	18 kDa
Cellular Localization	Mitochondrion. Mitochondrion inner membrane. [UniProt]

## Images



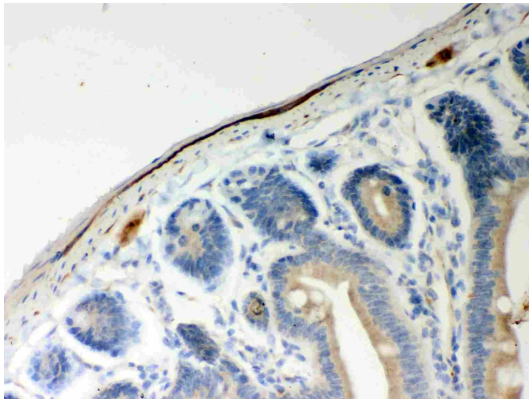
ARG58311 anti-ATP5H antibody ICC image

Immunocytochemistry: A549 cells stained with ARG58311 anti-ATP5H antibody.



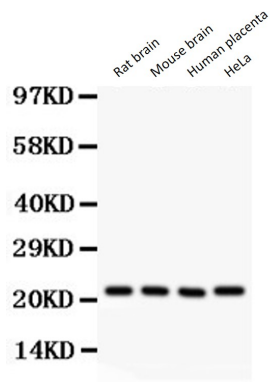
ARG58311 anti-ATP5H antibody ICC/IF image

Immunofluorescence: MCF-7 cells were blocked with 10% goat serum and then stained with ARG58311 anti-ATP5H antibody (green) at 5 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



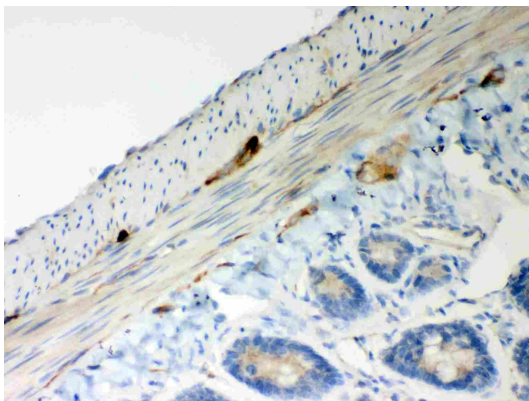
ARG58311 anti-ATP5H antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse intestine stained with ARG58311 anti-ATP5H antibody.



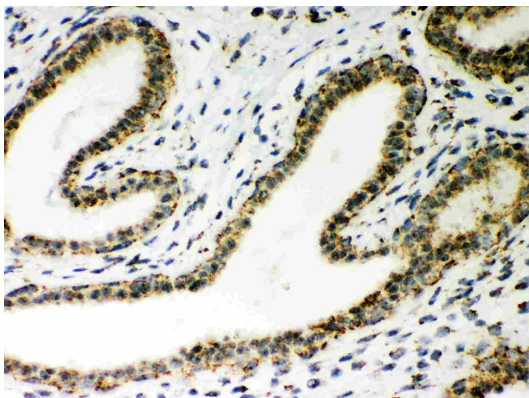
ARG58311 anti-ATP5H antibody WB image

Western blot: 50  $\mu$ g of Rat brain, 50  $\mu$ g of Mouse brain, 50  $\mu$ g of Human placenta and 40  $\mu$ g of HeLa whole cell lysate stained with ARG58311 anti-ATP5H antibody at 0.5  $\mu$ g/ml dilution.



ARG58311 anti-ATP5H antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat intestine stained with ARG58311 anti-ATP5H antibody.



ARG58311 anti-ATP5H antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer stained with ARG58311 anti-ATP5H antibody.