

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.	

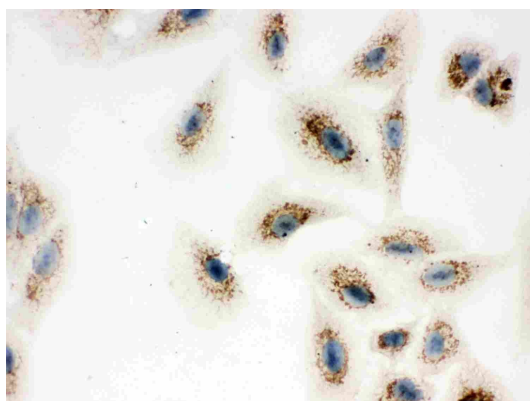
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 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.

Bioinformation

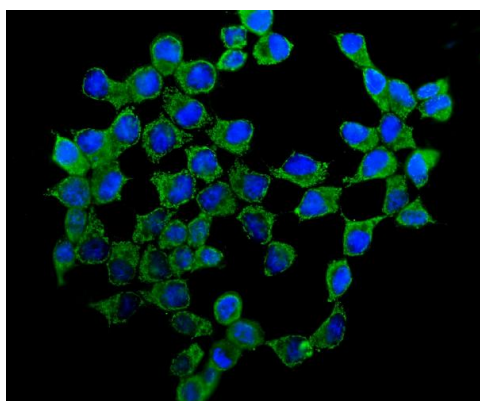
Gene Symbol	ATP5H
Gene Full Name	ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit d
Background	Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F ₁ , and the membrane-spanning component, F _o , which comprises the proton channel. The F ₁ 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 F _o seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the F _o 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



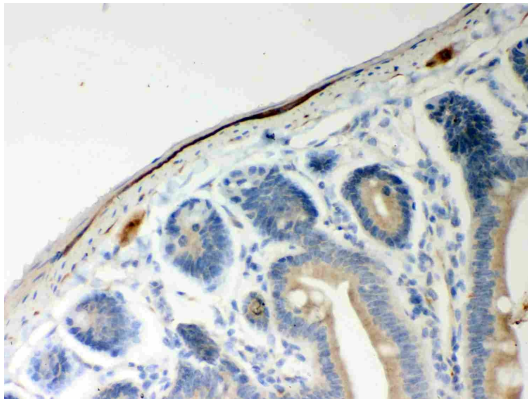
ARG58311 anti-ATP5H antibody ICC image

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



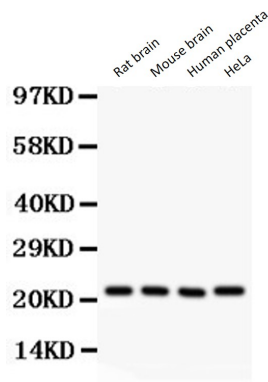
ARG58311 anti-ATP5H antibody ICC/IF image

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.



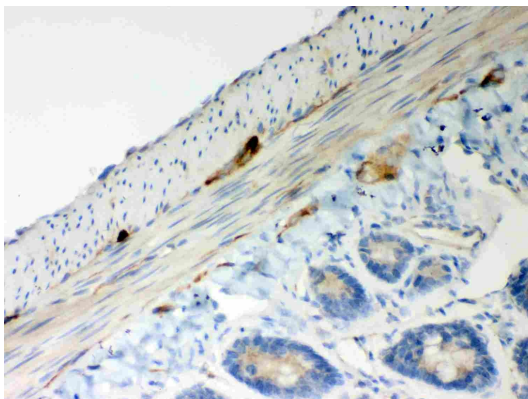
ARG58311 anti-ATP5H antibody IHC-P image

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



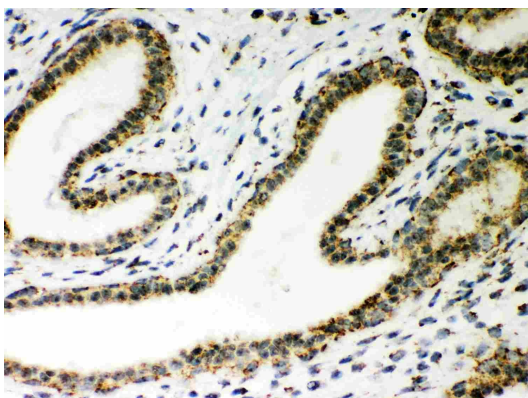
ARG58311 anti-ATP5H antibody WB image

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