

ARG44410 anti-ATP5F1D antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ATP5F1D
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATP5F1D
Species	Human
Immunogen	Human ATP5F1D recombinant protein (aa. sequence: R8-E168).
Conjugation	Un-conjugated
Alternate Names	ATP5F1D; ATP Synthase F1 Subunit Delta; ATP5D; ATP Synthase, H+ Transporting, Mitochondrial F1 Complex, Delta Subunit; ATP Synthase Subunit Delta, Mitochondrial; F-ATPase Delta Subunit; Mitochondrial ATP Synthase Complex Delta-Subunit Precursor; Mitochondrial ATP Synthase, Delta Subunit; MC5DN5

Application Instructions

Application table	Application	Dilution
	ICC/IF	5 µg/ml
	IHC-P	1-2 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
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.

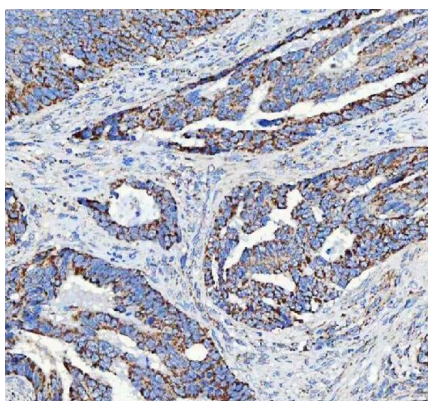
Note

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

Bioinformation

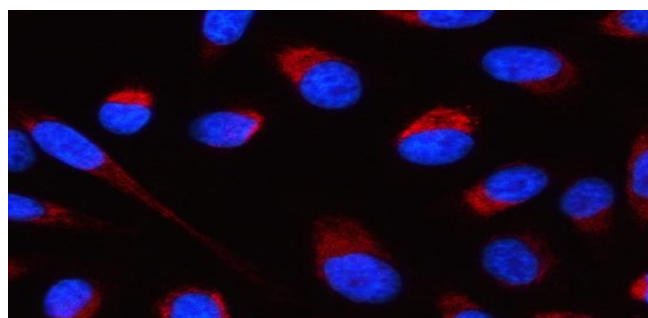
Gene Symbol	ATP5F1D
Gene Full Name	ATP Synthase F1 Subunit Delta
Background	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F ₁ , and the membrane-spanning component, F _o , comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the delta subunit of the catalytic core. Alternatively spliced transcript variants encoding the same isoform have been identified.
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.
Calculated Mw	17 kDa
PTM	Acetylation
Cellular Localization	CF(1), Membrane, Mitochondrion, Mitochondrion inner membrane

Images



ARG44410 anti-ATP5F1D antibody IHC-P image

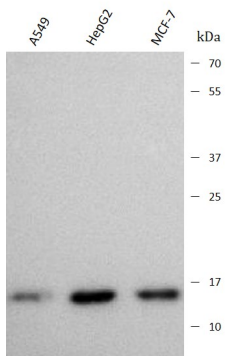
Immunohistochemistry: Human colorectal adenocarcinoma stained with ARG44410 anti-ATP5F1D antibody at 2 µg/mL dilution.



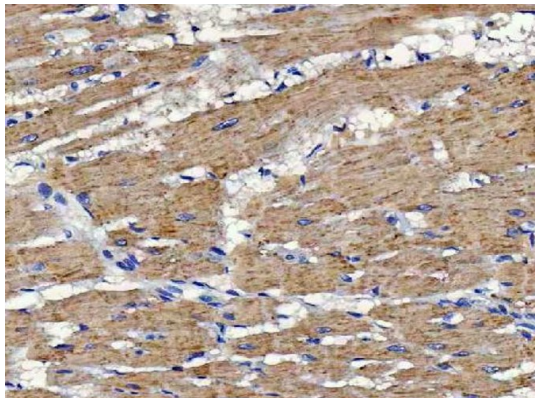
ARG44410 anti-ATP5F1D antibody ICC/IF image

Immunofluorescence: HeLa stained with ARG44410 anti-ATP5F1D antibody at 5 µg/mL dilution.

ARG44410 anti-ATP5F1D antibody WB image



Western blot: A549, HepG2 and MCF-7 stained with ARG44410 anti-ATP5F1D antibody at 0.5 μ g/mL dilution.



ARG44410 anti-ATP5F1D antibody IHC-P image

Immunohistochemistry: Rat heart stained with ARG44410 anti-ATP5F1D antibody at 2 μ g/mL dilution.



ARG44410 anti-ATP5F1D antibody WB image

Western blot: Rat liver stained with ARG44410 anti-ATP5F1D antibody at 0.5 μ g/mL dilution.



ARG44410 anti-ATP5F1D antibody WB image

Western blot: Mouse liver stained with ARG44410 anti-ATP5F1D antibody at 0.5 μ g/mL dilution.