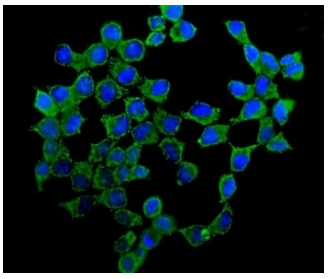
ATP5H Antibody (R31741)

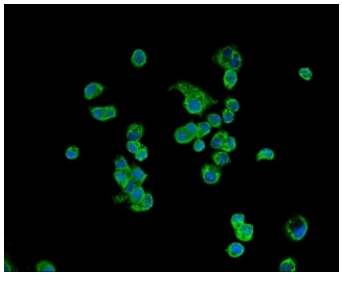
Catalog No.	Formulation	Size
R31741	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

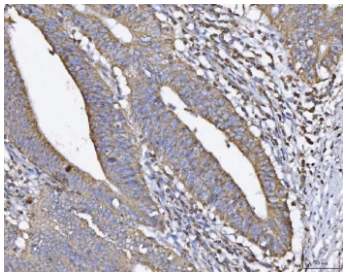
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
Gene ID	10476
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This ATP5H antibody is available for research use only.



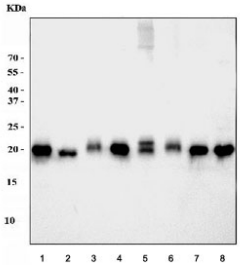
Immunofluorescent staining of FFPE human MCF7 cells with ATP5H antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



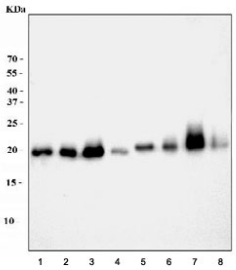
Immunofluorescent staining of FFPE human T-47D cells with ATP5H antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human rectal cancer tissue with ATP5H antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human HepG2, 3) human U-87 MG, 4) human A549, 5) monkey COS-7, 6) human SW620, 7) human Jurkat and 8) human 293T cell lysate with ATP5H antibody. Expected molecular weight: ~22 kDa.



Western blot testing of 1) rat brain, 2) rat liver, 3) rat heart, 4) rat PC-12, 5) mouse brain, 6) mouse liver, 7) mouse heart and 8) mouse ANA-1 cell lysate with ATP5H antibody. Expected molecular weight: ~22 kDa.

Description

ATP5H is the 'd' subunit of Mitochondrial ATP synthase complex which catalyzes ATP synthesis utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. The ATP synthase 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 has nine known subunits (a, b, c, d, e, f, g, F6 and 8). The ATP5H gene encodes the d subunit of the Fo complex.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ATP5H antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 2-161) was used as the immunogen for this ATP5H antibody.

Storage

After reconstitution, the ATP5H antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.