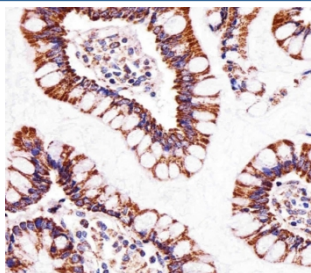


## ATP5B Antibody (F54243)

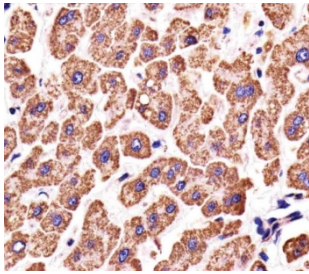
Catalog No.	Formulation	Size
F54243-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54243-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

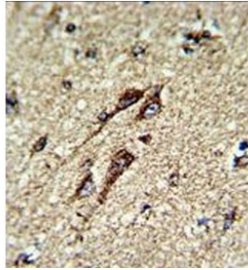
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity purified
<b>UniProt</b>	P06576
<b>Gene ID</b>	506
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 1:1000 Immunohistochemistry (FFPE) : 1:25-1:100 Flow Cytometry : 1:25 (1x10 <sup>6</sup> cells) Immunofluorescence : 1:25
<b>Limitations</b>	This ATP5B antibody is available for research use only.



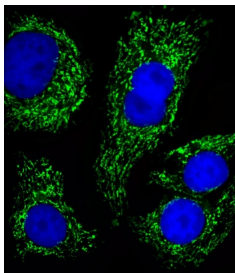
IHC testing of FFPE human small intestine tissue with ATP5B antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



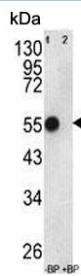
IHC testing of FFPE human liver tissue with ATP5B antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



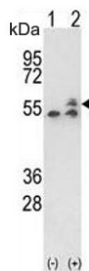
IHC testing of FFPE human brain tissue with ATP5B antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



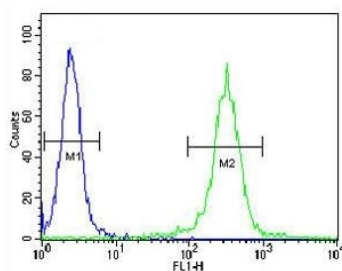
Immunofluorescent staining of fixed and permeabilized human SK-BR-3 cells with ATP5B antibody (green) and DAPI nuclear stain (blue).



Western blot testing of human WiDr cell lysate in the absence and presence of immunizing peptide with ATP5B antibody. Predicted molecular weight ~56 kDa.



Western blot testing of 1) non-transfected and 2) transfected human 293 cell lysate with ATP5B antibody. Predicted molecular weight ~56 kDa.



Flow cytometry testing of fixed and permeabilized human WiDr cells with ATP5B antibody; Blue=isotype control, Green= ATP5B antibody.

## Description

ATP5B is 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, F1, and the membrane-spanning component, Fo, 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). It is the beta subunit of the catalytic core.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the ATP5B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 135-163 from the human protein were used as the immunogen for the ATP5B antibody.

## Storage

Aliquot the ATP5B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.