

## ATP5F1A Monoclonal Antibody

### Description

<b>Product type</b>	Antibody
<b>Code</b>	BT-MCA3588
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1
<b>Size</b>	100µL, 50µL
<b>Immunogen</b>	Purified recombinant fragment of human ATP5F1A (AA: 44-220) expressed in E. Coli.
<b>Mol wt</b>	59.8kDa
<b>Species reactivity</b>	Others
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB,IHC,FCM
<b>Concentration</b>	N/A
<b>Full name</b>	N/A
<b>Synonyms</b>	OMR;ORM;ATPM;MOM2;ATP5A;hATP1;ATP5A1;MC5DN4;ATP5AL2;COXPD22;HEL-S-123m

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using 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<sub>1</sub>, and the membrane-spanning component, F<sub>o</sub>, 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 alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified. Pseudogenes of this gene are located on chromosomes 9, 2, and 16.

### Recommended Dilution

WB: 1:500 - 1:2000

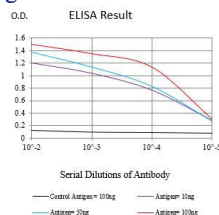
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

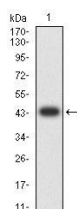
ELISA: 1:10000

Not yet tested in other applications.

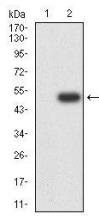
### Images



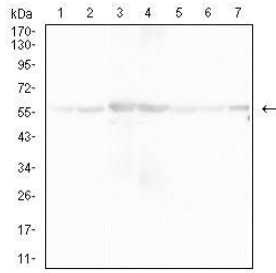
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



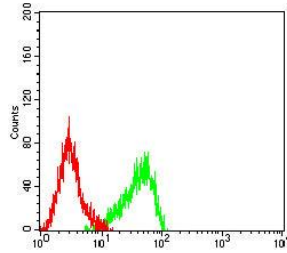
Western blot analysis using ATP5F1A mAb against human ATP5F1A (AA: 44-220) recombinant protein. (Expected MW is 44.7 kDa)



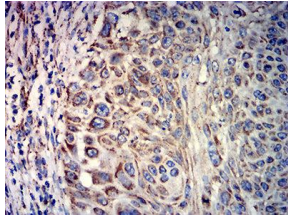
Western blot analysis using ATP5F1A mAb against HEK293-6e (1) and ATP5F1A (AA: 44-220)-hlgGFc transfected HEK293-6e (2) cell lysate.



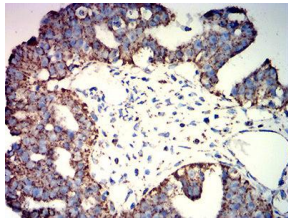
Western blot analysis using ATP5F1A mouse mAb against COS7 (1), NIH/3T3 (2), mouse heart (3), rat heart (4), HCT116 (5), HeLa (6), and HepG2 (7) cell lysate.



Flow cytometric analysis of Jurkat cells using ATP5F1A mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded lung cancer tissues using ATP5F1A mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using ATP5F1A mouse mAb with DAB staining.

## Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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