

## ATP5F1A monoclonal antibody

Catalog: MB23225

Host: Mouse

Reactivity: Human, Mouse, Rat, Monkey

### 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.

### Product:

Purified antibody in PBS with 0.05% sodium azide

### Molecular Weight:

59.8kDa

### Swiss-Prot:

P25705

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 FC:1/200 - 1/400

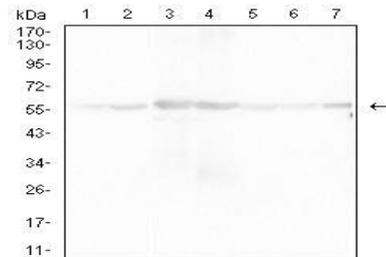
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

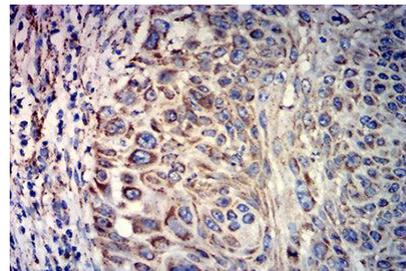
### Isotype:

Mouse IgG1

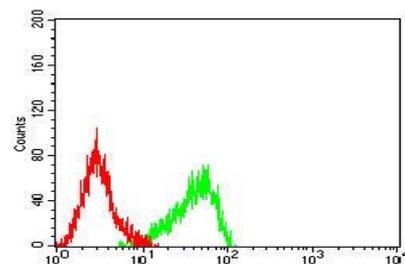
### DATA:



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.



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



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

### Note:

For research use only, not for use in diagnostic procedure.

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

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