#M25014

ATPA(027) Mouse mAb

Orders ■ 400-6123-828
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☐50 µl
☐100 µl
☐200 µl

DESCRIPTION
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, 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). This gene encodes the alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified.

SOURCE
This Abmart monoclonal antibody is produced by immunizing mice with a polypeptide (Abmart SEAL mAb technology) corresponding to ATPA protein.

STORAGE
Store at -20°C, stable for one year from the date of shipment.

ALIASES
ATP5A, ATP5AL2, ATPM, hATP1, OMR, ORM

REACTIVITY
Homo sapiens

ISOTYPE
Mouse IgG

PREDICTED MOLECULAR WEIGHT
59 KDa

RECOMMEND ANTIBODY DILUTIONS

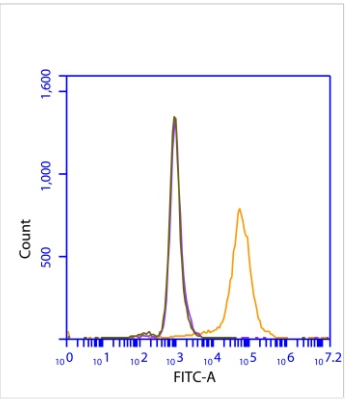
Western blotting	1:1000-1:5000
immunoprecipitation	10 tests
FACS	1:100-1:200

***For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.05% Tween-20 at 4°C with gentle shaking overnight.**

PRODUCT ADVANTAGE
Mass spectrum approved

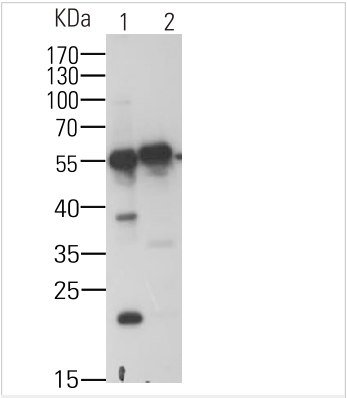
COMPANION PRODUCTS
#M21001 Goat-anti-Mouse IgG-HRP
#M20001 His-Tag mAb
#M20002 Myc-Tag mAb
#M20003 HA-Tag mAb
#M20018 Anti-DYKDDDDK-Tag mAb (Agarose conjugated)

APPLICATION DATA



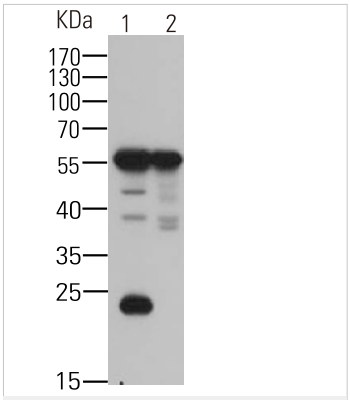
Flow Cytometry–Anti-ATPA Antibody (M25014)

Flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling ATPA with M25014 at 1/200 dilution (yellow) compared with a mouse monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody, blue). Goat anti-mouse IgG (FITC) at 1/300 dilution was used as the secondary antibody.



IP-Anti-ATPA Antibody(M25014)

ATPA was immunoprecipitated from 1mg of Jurkat cells membrane fraction, blotted with M25014 of 10µg. Western blot was performed from the immunoprecipitate using M25014 at 1/2000 dilution. Anti-Mouse-IgG(HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/10000 dilution. Lane 1: Jurkat cells membrane fraction. Lane2:IP product of Jurkat cells membrane fraction.
Blocking and dilution buffer and concentration:5% milk/TBST.



WB-Anti-ATPA Antibody (M25014)

All lanes : ATPA Mouse mAb at 1/2000 dilution
Lane 1 : Jurkat cells membrane fraction
Lane 2 : THP1 cells membrane fraction
Lysates/proteins at 20 µg per lane.

Secondary
Goat Anti-Mouse IgG-HRP, 5% milk conjugated at 1/10000 dilution

Predicted band size : 59 KDa
Observed band size : 59 KDa
Blocking/Dilution buffer : 1× TBST.

Applications Key: WB —Western blot, IP—Immunoprecipitation, IHC—Immunohistochemistry, ChIP—Chromatin Immunoprecipitation, IF—Immunofluorescence