#M25022

NDUFS1 Mouse mAb

Orders 400-6123-828
orders@ab-mart.com
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☐50 µl
☐100 µl
☐200 µl

DESCRIPTION
The protein encoded by this gene belongs to the complex I 75 KDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene.

SOURCE
This Abmart monoclonal antibody is produced by immunizing mice with a polypeptide (Abmart SEAL mAb technology) corresponding to NDUFS1 protein.

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

ALIASES
CI-75k

REACTIVITY
Homo sapiens

ISOTYPE
Mouse IgG

PREDICTED MOLECULAR WEIGHT
79 KDa

RECOMMEND ANTIBODY DILUTIONS

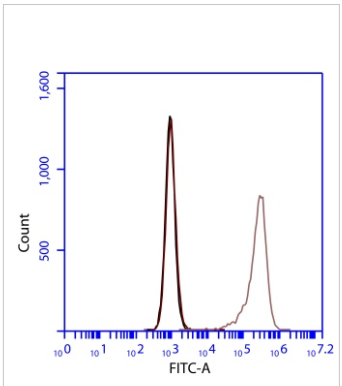
Western blotting	1:1000-1:5000
Immunoprecipitation	10 tests
FACS	1:100-1:200

***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

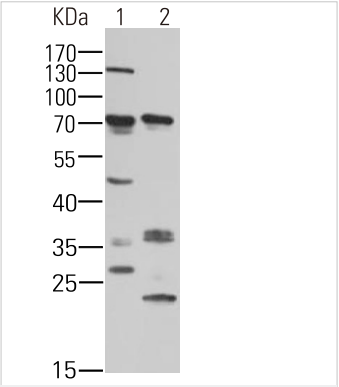
COMPANION PRODUCTS
#M21001 Goat-anti-Mouse IgG-HRP
#M20001 His-Tag mAb
#M20002 Myc-Tag mAb
#M20003 HA-Tag mAb
#M20018 Anti-DYKDDDDK-Tag mAb (Agarose conjugated)

APPLICATION DATA



Flow Cytometry–Anti-NDUFS1 Antibody (M25022)

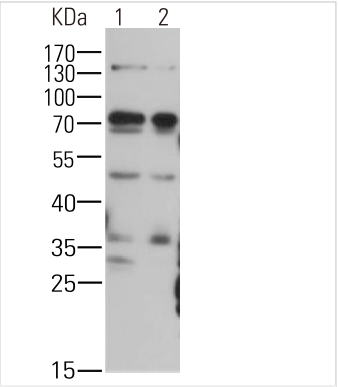
Flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling NDUFS1 with M25022 at 1/200 dilution (red) compared with a mouse monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody, blue). Goat anti-mouse IgG (FITC) at 1/300 dilution was used as the secondary antibody.



IP-Anti-NDUFS1 Antibody(M25022)

NDUFS1 was immunoprecipitated from 1mg of Jurkat cells membrane fraction, blotted with M25022 of 10µg. Western blot was performed from the immunoprecipitate using M25022 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-NDUFS1 Antibody(M25022)

All lanes : NDUFS1 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 : 79 KDa
Observed band size :79 KDa
Blocking/Dilution buffer : 1× TBST.

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