

Anti-ADX Rabbit Monoclonal Antibody

Catalog # ABO16344

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	P10109
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-ADX Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	2230
Other Names	Adrenodoxin, mitochondrial, Adrenal ferredoxin, Ferredoxin-1, Hepatoredoxin, FDX1, ADX
Calculated MW	19393
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names Immunogen	Clone: 28F80 A synthesized peptide derived from human ADX
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	FDX1
Synonyms	ADX
Function	Essential for the synthesis of various steroid hormones (PubMed: 20547883 ,

PubMed:[21636783](#)). Participates in the reduction of mitochondrial cytochrome P450 for steroidogenesis (PubMed:[20547883](#), PubMed:[21636783](#)). Transfers electrons from adrenodoxin reductase to CYP11A1, a cytochrome P450 that catalyzes cholesterol side-chain cleavage (PubMed:[20547883](#), PubMed:[21636783](#)). Does not form a ternary complex with adrenodoxin reductase and CYP11A1 but shuttles between the two enzymes to transfer electrons (By similarity).

Cellular Location

Mitochondrion matrix

Tissue Location

Highest levels in the adrenal gland (at protein level). Also detected in kidney and testis (at protein level)

Images

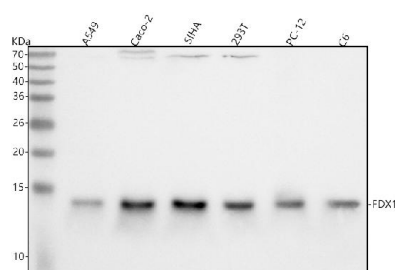
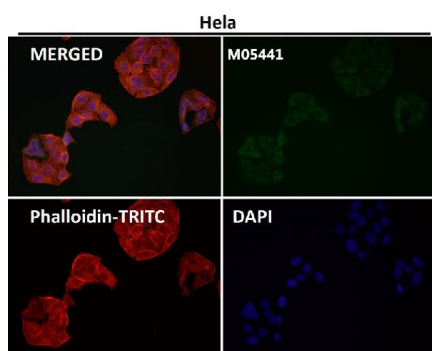


Figure 1. Western blot analysis of FDX1 using anti-FDX1 antibody (M05441).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,
Lane 2: human CACO-2 whole cell lysates,
Lane 3: human SiHa whole cell lysates,
Lane 4: human 293T whole cell lysates,
Lane 5: rat PC-12 whole cell lysates,
Lane 6: rat C6 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FDX1 antigen affinity purified monoclonal antibody (Catalog # M05441) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FDX1 at approximately 13 kDa. The expected band size for FDX1 is at 19 kDa.



Immunofluorescent analysis using the Antibody at 1:50 dilution.