

**Anti-ADX Rabbit Monoclonal Antibody**  
**Catalog # ABO16344****Specification**

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**Anti-ADX Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC
Primary Accession	<a href="#">P10109</a>
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.

**Anti-ADX Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 2230

**Other Names**

Adrenodoxin, mitochondrial, Adrenal ferredoxin, Ferredoxin-1, Hepatoredoxin, FDX1, ADX

**Calculated MW**

13 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200

**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.

**Immunogen**

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.**

**Anti-ADX Rabbit Monoclonal Antibody - Protein Information**

**Name** FDX1

## Synonyms ADX

### Function

Essential for the synthesis of various steroid hormones (PubMed:<a href="http://www.uniprot.org/citations/20547883" target="\_blank">20547883</a>, PubMed:<a href="http://www.uniprot.org/citations/21636783" target="\_blank">21636783</a>). Participates in the reduction of mitochondrial cytochrome P450 for steroidogenesis (PubMed:<a href="http://www.uniprot.org/citations/20547883" target="\_blank">20547883</a>, PubMed:<a href="http://www.uniprot.org/citations/21636783" target="\_blank">21636783</a>). Transfers electrons from adrenodoxin reductase to CYP11A1, a cytochrome P450 that catalyzes cholesterol side-chain cleavage (PubMed:<a href="http://www.uniprot.org/citations/20547883" target="\_blank">20547883</a>, PubMed:<a href="http://www.uniprot.org/citations/21636783" target="\_blank">21636783</a>). 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)

## Anti-ADX Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-ADX Rabbit Monoclonal Antibody - Images

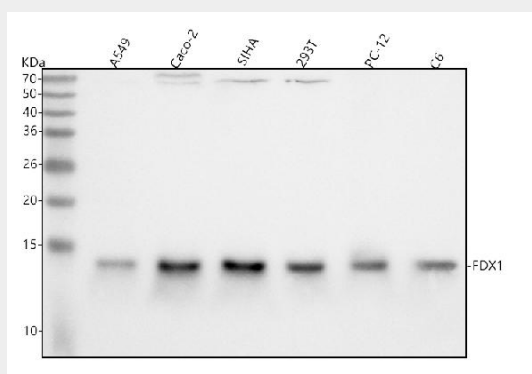


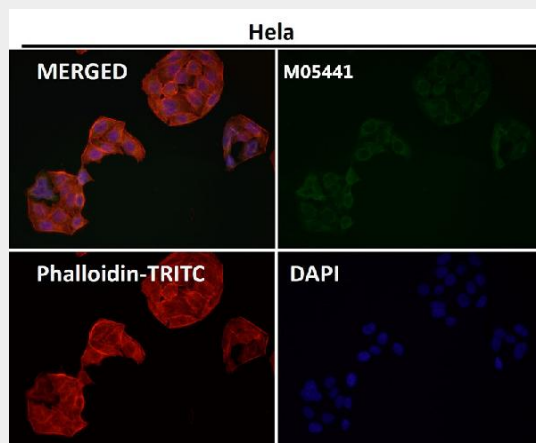
Figure 1. Western blot analysis of FDX1 using anti-FDX1 antibody (M05441).

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.