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[KO Validated] FDX1/ADX Rabbit mAb

Catalog No.: A28818 KO Validated Recombinant

Basic Information

Observed MW
14 kDa

Calculated MW
20 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IF-F,IHC-P,ELISA

Cross-Reactivity
Mouse, Rat

CloneNo number
ARC81587

Background

Ferrodoxins are iron-sulfur proteins that facilitate monooxygenase reactions catalyzed by P450 enzymes. The protein encoded by this gene is present in the mitochondrial matrix and transfers electrons from ferredoxin reductase to steroidogenic mitochondrial cytochrome P450 proteins. Alternative splicing results in multiple transcript variants encoding different isoforms.

Recommended Dilutions

WB	1:2000 - 1:15000
IP	0.5 µg - 4 µg antibody for 400 µg - 600 µg extracts of whole cells
IF/ICC	1:200 - 1:800
IF-F	1:200 - 1:800
IHC-P	1:3000 - 1:12000
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
14148

Swiss Prot
P46656

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
FDX1; ADX; FDX; LOH11CR1D; ferredoxin 1

Product Information

Source
Rabbit

Isotype
IgG

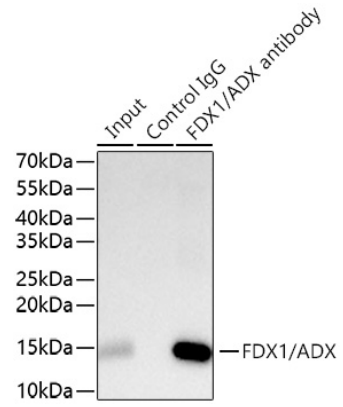
Purification
Affinity purification

Storage
Store at -20℃

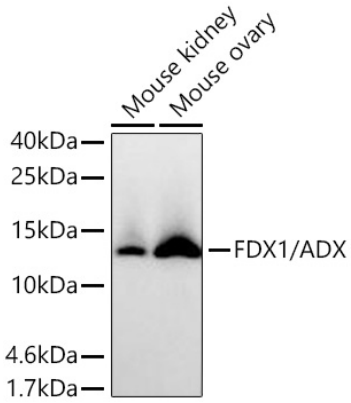
Contact

☎	400-999-6126
✉	cn.market@abclonal.com.cn
🌐	www.abclonal.com.cn

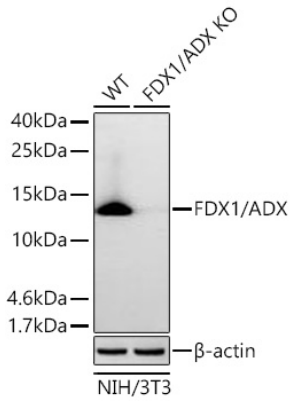
Validation Data



Immunoprecipitation of FDX1/ADX from 600 µg extracts of Mouse ovary tissue was performed using 2 µg of [KO Validated] FDX1/ADX Rabbit mAb (A28818).Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KO Validated] FDX1/ADX Rabbit mAb (A28818) at a dilution of 1:10000.

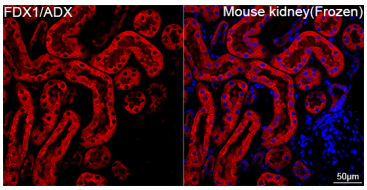


Western blot analysis of various lysates using [KO Validated] FDX1/ADX Rabbit mAb (A28818) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.

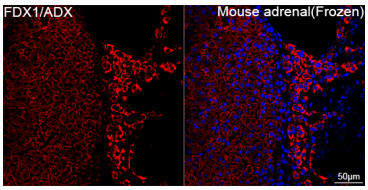


Western blot analysis of lysates from wild type (WT) and FDX1/ADX knockout (KO) NIH/3T3 cells using [KO Validated] FDX1/ADX Rabbit mAb (A28818) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.

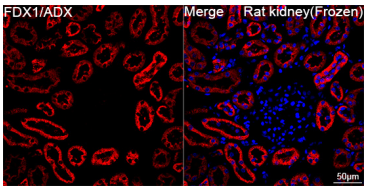
Validation Data



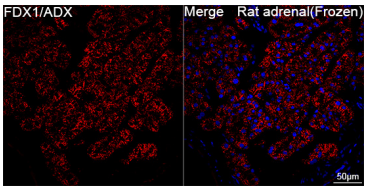
Confocal imaging of frozen sections of Mouse kidney tissue using [KO Validated] FDX1/ADX Rabbit mAb (A28818, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



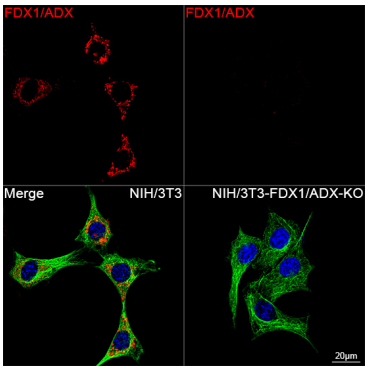
Confocal imaging of frozen sections of Mouse adrenal tissue using [KO Validated] FDX1/ADX Rabbit mAb (A28818, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



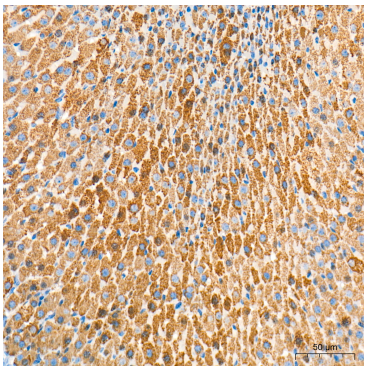
Confocal imaging of frozen sections of Rat kidney tissue using [KO Validated] FDX1/ADX Rabbit mAb (A28818, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



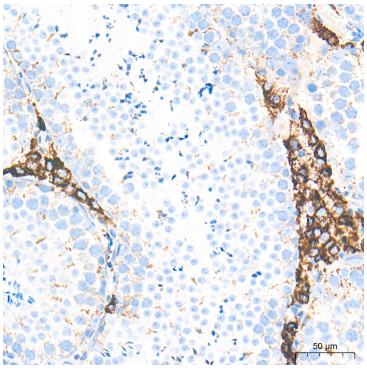
Confocal imaging of frozen sections of Rat adrenal tissue using [KO Validated] FDX1/ADX Rabbit mAb (A28818, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



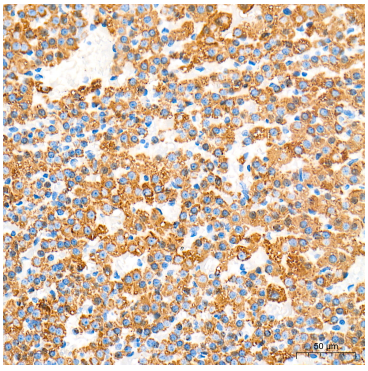
Confocal imaging of NIH/3T3 cells and FDX1/ADX knockout (KO) NIH/3T3 cells using [KO Validated] FDX1/ADX Rabbit mAb (A28818, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



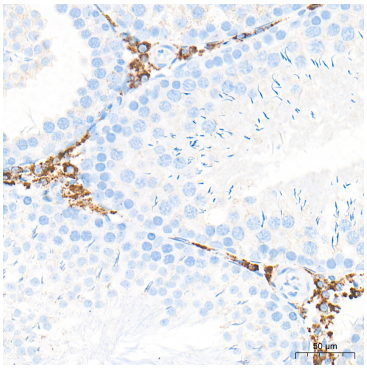
Immunohistochemistry analysis of paraffin-embedded Mouse adrenal gland tissue using [KO Validated] FDX1/ADX Rabbit mAb (A28818) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-



Immunohistochemistry analysis of paraffin-



Immunohistochemistry analysis of paraffin-

Validation Data

embedded Mouse testis tissue using [KO Validated] FDX1/ADX Rabbit mAb (A28818) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

embedded Rat adrenal gland tissue using [KO Validated] FDX1/ADX Rabbit mAb (A28818) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

embedded Rat testis tissue using [KO Validated] FDX1/ADX Rabbit mAb (A28818) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.