

For Research Use Only

# FDX1 Polyclonal antibody

Catalog Number: 12592-1-AP

Featured Product

72 Publications



## Basic Information

### Catalog Number:

12592-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3301

### GenBank Accession Number:

BC017063

### GeneID (NCBI):

2230

### UNIPROT ID:

P10109

### Full Name:

ferredoxin 1

### Calculated MW:

184 aa, 19 kDa

### Observed MW:

14 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, sheep

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** A549 cells, HEK-293 cells, HepG2 cells, PC-3 cells, mouse testis tissue

**IHC:** human kidney tissue, human liver tissue, human ovary tumor tissue

**IF/ICC:** HepG2 cells,

## Background Information

FDX1(Ferredoxin-1) is also named as ADX, FDX, YAH1, LOH11CR1D and belongs to the adrenodoxin/putidaredoxin family. It is a small iron-sulfur protein that transfers electrons from NADPH through ferredoxin reductase to a terminal cytochrome P450 and it can only reduce mitochondrial CYP enzymes that are essential in adrenal steroidogenesis, bile acid formation, and vitamin D synthesis. The full length has a transit peptide of 60 amino acids.

## Notable Publications

Author	Pubmed ID	Journal	Application
Longfei Yang	36210836	Front Pharmacol	WB
Xing Huang	36186457	Front Genet	IHC, WB
Wei-Tong Zhang	36105937	Biomed Res Int	WB, IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

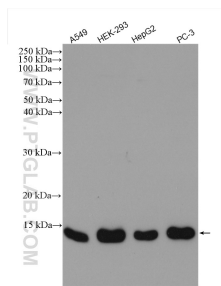
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

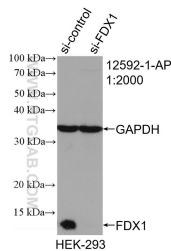
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

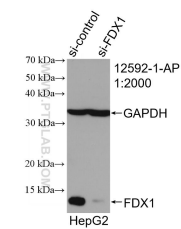
## Selected Validation Data



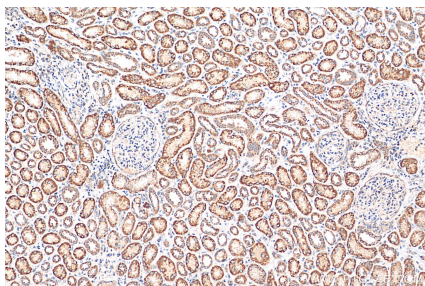
Various lysates were subjected to SDS PAGE followed by western blot with 12592-1-AP (FDX1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



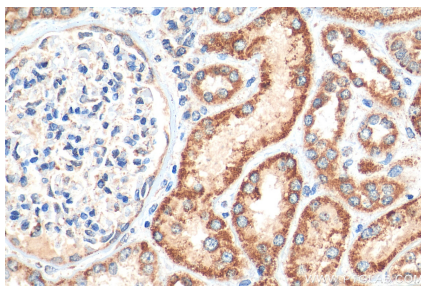
WB result of FDX1 antibody (12592-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDX1 transfected HEK-293 cells.



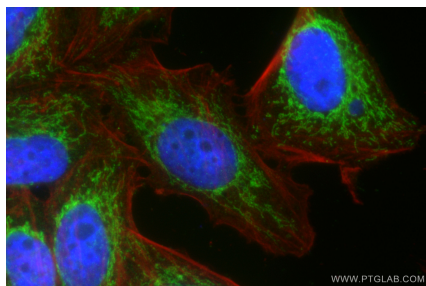
WB result of FDX1 antibody (12592-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDX1 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12592-1-AP (FDX1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12592-1-AP (FDX1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FDX1 antibody (12592-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).