

For Research Use Only

# FDX1 Polyclonal antibody

Catalog Number: 12592-1-AP

Featured Product

39 Publications



## Basic Information

<b>Catalog Number:</b> 12592-1-AP	<b>GenBank Accession Number:</b> BC017063	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2230	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P10109	
<b>Isotype:</b> IgG	<b>Full Name:</b> ferredoxin 1	
<b>Immunogen Catalog Number:</b> AG3301	<b>Calculated MW:</b> 184 aa, 19 kDa	
	<b>Observed MW:</b> 14 kDa	

## Applications

**Tested Applications:**  
IF, IHC, WB, ELISA

**Cited Applications:**  
WB, IHC, IF

**Species Specificity:**  
human, mouse

**Cited Species:**  
human, rat, sheep, mouse

**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:** 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

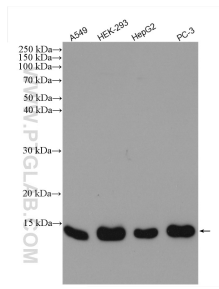
For technical support and original validation data for this product please contact:

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

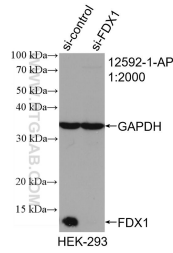
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

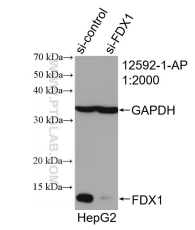
## Selected Validation Data



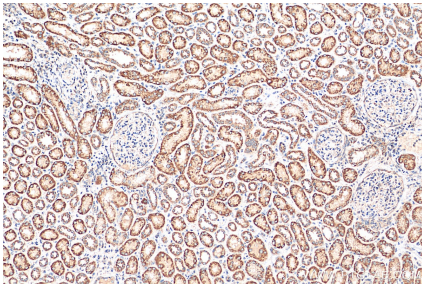
Various lysates were subjected to SDS PAGE followed by western blot with 12592-1-AP (FDX1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



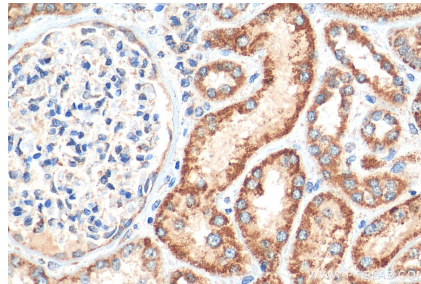
WB result of FDX1 antibody (12592-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDX1 transfected HEK-2993 cells.



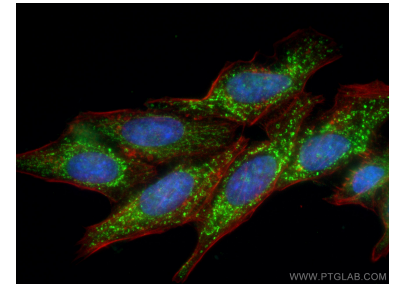
WB result of FDX1 antibody (12592-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDX1 transfected HepG2 cells.



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), CL594-Phalloidin (red).