

For Research Use Only

FDX1 Polyclonal antibody

Catalog Number: 12592-1-AP

Featured Product

104 Publications



Basic Information

Catalog Number:

12592-1-AP

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, IP, CoIP

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 | WB,IHC |
| 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

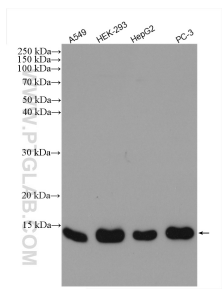
T: 4006900926

E: Proteintech-CN@ptglab.com

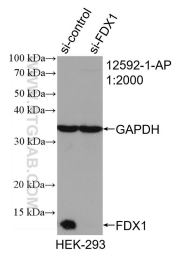
W: ptgcn.com

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

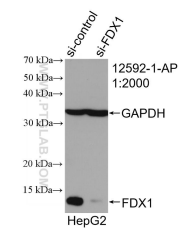
Selected Validation Data



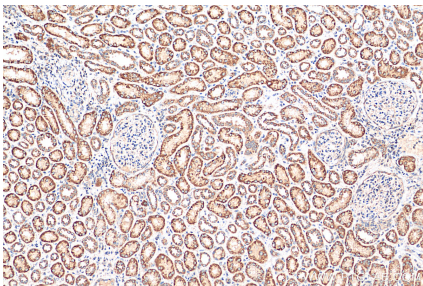
Various lysates were subjected to SDS PAGE followed by western blot with 12592-1-AP (FDX1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



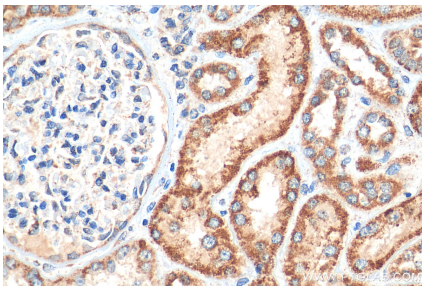
WB result of FDX1 antibody (12592-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDX1 transfected HEK-293 cells.



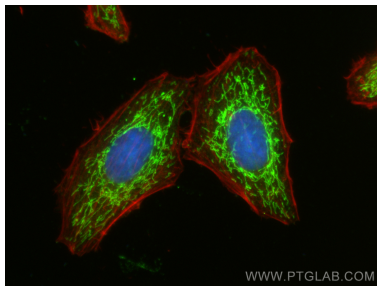
WB result of FDX1 antibody (12592-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDX1 transfected HepG2 cells.



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 Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).