

For Research Use Only

FDX1 Recombinant antibody

Catalog Number: 82957-2-RR

Featured Product



Basic Information

Catalog Number:

82957-2-RR

Size:

100ul, 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:

Protein A purification

CloneNo.:

230196E9

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:200-1:800

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

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 : HEK-293 cells, A549 cells, PC-3 cells, U-87 MG cells, U-251 cells, HK-2 cells

IHC : human stomach cancer tissue, human intrahepatic cholangiocarcinoma 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.

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

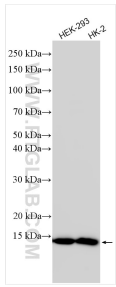
For technical support and original validation data for this product please contact:

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

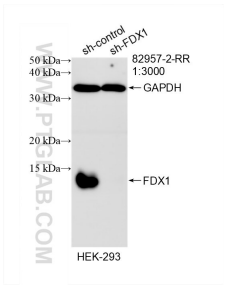
E: proteintech@ptglab.com
W: ptglab.com

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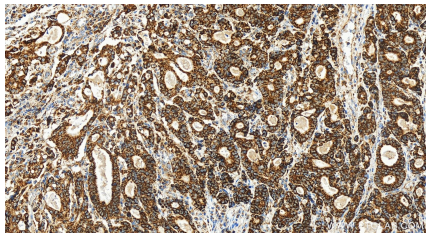
Selected Validation Data



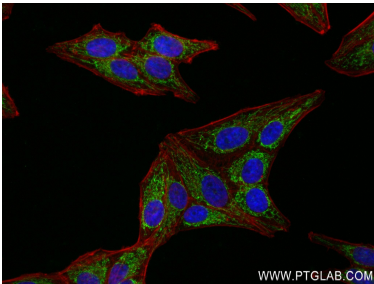
Various lysates were subjected to SDS PAGE followed by western blot with 82957-2-RR (FDX1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



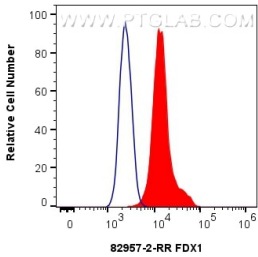
WB result of FDX1 antibody (82957-2-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDX1 transfected HEK-293 cells.



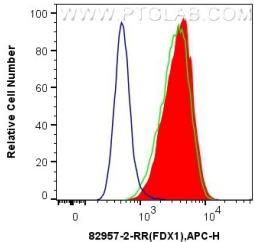
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 82957-2-RR (FDX1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer(pH9).



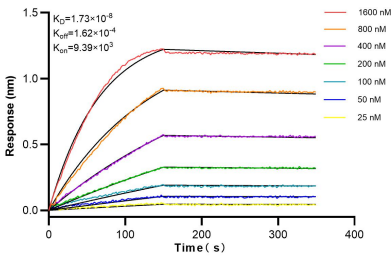
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FDX1 antibody (82957-2-RR, Clone: 230196E9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ A431 cells were intracellularly stained with 0.4 ug FDX1 Recombinant antibody (82957-2-RR, Clone:230196E9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug FDX1 Recombinant antibody (82957-2-RR, Clone:230196E9) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), or 0.25 ug FDX1 Recombinant antibody (82957-2-RR, Clone: 230196E9) (green). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 82957-2-RR against Human FDX1 were performed. The affinity constant is 17.3 nM.