

For Research Use Only

FDXR Polyclonal antibody

Catalog Number: 15584-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

15584-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7145

GenBank Accession Number:

BC063493

GeneID (NCBI):

2232

UNIPROT ID:

P22570

Full Name:

ferredoxin reductase

Calculated MW:

54 kDa

Observed MW:

48-58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat, pig

Cited Species:

human

Positive Controls:

WB : mouse testis tissue, pig adrenal gland tissue, human adrenal gland tissue, rat testis tissue

IHC : human liver cancer tissue,

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

Background Information

Ferredoxin reductase (FDXR, also known as adrenodoxin reductase) is a mitochondrial membrane-associated flavoprotein. One of its functions is to transfer electrons from NADPH to the two human ferredoxin proteins, FDX1 and FDX2. FDXR is expressed in all tissues with the highest expression in tissues such as the adrenal cortex, that specialize in steroid hormone synthesis. Functionally, FDXR is suggested to be involved in various. Functionally, FDXR is suggested to be involved in various. Notably, recent studies have shown that FDXR mutations are associated with mitochondrial disorders, probably due to its role in iron-sulfur cluster protein biosynthesis (PMID: 32304229). FDXR has 7 isoforms with the molecular weight of 48-58 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yiqi Christina Lin	35688208	J Biol Chem	WB
Chaojun Yan	37207154	Front Oncol	WB

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

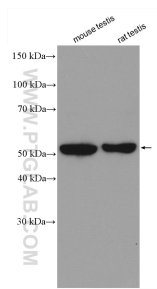
For technical support and original validation data for this product please contact:

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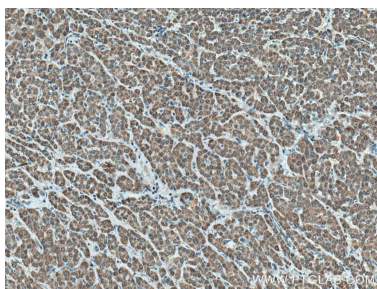
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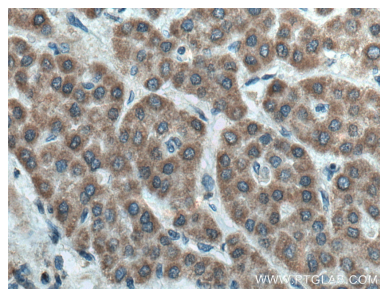
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15584-1-AP (FDXR antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15584-1-AP (FDXR 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 liver cancer tissue slide using 15584-1-AP (FDXR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).