



## Rabbit Anti-Ferredoxin Reductase antibody

SL13154R

<b>Product Name:</b>	Ferredoxin Reductase
<b>Chinese Name:</b>	铁氧化还原蛋白还原酶抗体
<b>Alias:</b>	adrenodoxin reductase; ADRO_HUMAN; ADXR; AR; FDXR; Ferredoxin NADP(+) reductase; Ferredoxin reductase; Ferredoxin--NADP(+) reductase; mitochondrial; NADPH adrenodoxin oxidoreductase mitochondrial; NADPH:adrenodoxin oxidoreductase.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Horse,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	50kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Ferredoxin Reductase:401-491/491
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Adrenodoxin Reductase (ADX Reductase) is a mitochondrial flavoprotein that receives electrons from NADPH and thereby initiates the electron-transport chain serving mitochondrial cytochromes P450. ADX Reductase participates in cholesterol side chain

cleavage in all steroidogenic tissues, steroid 11- $\beta$  hydroxylation in the adrenal cortex, 25-OH-vitamin D3-24 hydroxylation in the kidney and sterol C-27 hydroxylation in the liver. Alternate splicing of ADX Reductase produces two isoforms. Human ADX Reductase maps to human chromosome 17q24-q25.

**Function:**

Serves as the first electron transfer protein in all the mitochondrial P450 systems. Including cholesterol side chain cleavage in all steroidogenic tissues, steroid 11- $\beta$  hydroxylation in the adrenal cortex, 25-OH-vitamin D3-24 hydroxylation in the kidney, and sterol C-27 hydroxylation in the liver.

**Subunit:**

Monomer. Interacts directly with FDX1.

**Subcellular Location:**

Mitochondrion matrix.

**Similarity:**

Belongs to the ferredoxin--NADP reductase type 1 family.

**SWISS:**

P22570

**Gene ID:**

2232

**Database links:**

[Entrez Gene: 2232](#)Human

[Entrez Gene: 14149](#)Mouse

[Entrez Gene: 79122](#)Rat

[Omim: 103270](#)Human

[SwissProt: P22570](#)Human

[SwissProt: Q61578](#)Mouse

[SwissProt: P56522](#)Rat

[Unigene: 69745](#)Human

[Unigene: 4719](#)Mouse

[Unigene: 10860](#)Rat

**Important Note:**

	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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