10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FDXR Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16132b

Product Information

Application	WB, E
Primary Accession	P22570
Other Accession	NP_077728.2, NP_004101.2
Reactivity	Human
Predicted	Mouse, Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35315
Calculated MW	53837
Antigen Region	459-487

Additional Information

Gene ID	2232
Other Names	NADPH:adrenodoxin oxidoreductase, mitochondrial, AR, Adrenodoxin reductase, Ferredoxin--NADP(+) reductase, Ferredoxin reductase, FDXR, ADXR
Target/Specificity	This FDXR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 459-487 amino acids from the C-terminal region of human FDXR.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FDXR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FDXR (HGNC:3642)
Synonyms	ADXR

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 (By similarity). Also acts as a ferredoxin--NADP(+) reductase essential for coenzyme Q biosynthesis: together with FDX2, transfers the electrons required for the hydroxylation reaction performed by COQ6 (PubMed:38425362).
Cellular Location	Mitochondrion. Mitochondrion inner membrane {ECO:0000250|UniProtKB:P48360}; Peripheral membrane protein

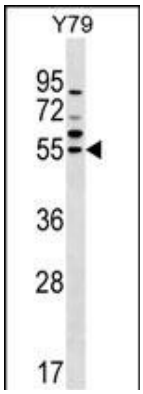
Background

This gene encodes a mitochondrial flavoprotein that initiates electron transport for cytochromes P450 receiving electrons from NADPH. Multiple alternatively spliced transcript variants of this gene have been described although the full-length nature of only two that encode different isoforms have been determined.

References

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Thiboutot, D., et al. J. Invest. Dermatol. 120(6):905-914(2003)
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Images



FDXR Antibody (C-term) (Cat. #AP16132b) western blot analysis in Y79 cell line lysates (35ug/lane).This demonstrates the FDXR antibody detected the FDXR protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.