

CYP27C1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55437

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q4G0S4
Reactivity	Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60920

Additional Information

Gene ID	339761
Other Names	Cytochrome P450 27C1, 1.14.19.53, All-trans retinol 3, 4-desaturase, CYP27C1 (HGNC:33480)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	CYP27C1 (HGNC:33480)
Function	[Isoform 2]: A cytochrome P450 monooxygenase that catalyzes the 3,4 desaturation of all-trans-retinol (also called vitamin A1) to all-trans-3,4-didehydroretinol (also called vitamin A2) in the skin. Desaturates with lower efficiency all-trans retinal and all-trans retinoic acid. Forms minor amounts of 3-hydroxy and 4-hydroxy all- trans-retinol derivatives. Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate and reducing the second into a water molecule. Two electrons are provided by NADPH via a two-protein mitochondrial transfer system comprising flavoprotein FDXR (adrenodoxin/ferredoxin reductase) and nonheme iron-sulfur protein FDX1 or FDX2 (adrenodoxin/ferredoxin).
Cellular Location	[Isoform 2]: Mitochondrion membrane {ECO:0000250 UniProtKB:P14137}; Peripheral membrane protein {ECO:0000250 UniProtKB:P14137}
Tissue Location	Widely expressed, with highest levels in the liver, kidney and pancreas.

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