

**CYP27C1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7893c****Specification**

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**CYP27C1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q4G0S4](#)**CYP27C1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 339761**Other Names**

Cytochrome P450 27C1, 114--, CYP27C1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7893c](/products/AP7893c) was selected from the Center region of human CYP27C1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CYP27C1 Antibody (Center) Blocking Peptide - 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.

**CYP27C1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**CYP27C1 Antibody (Center) Blocking Peptide - Images****CYP27C1 Antibody (Center) Blocking Peptide - Background**

CYP27C1 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids.

**CYP27C1 Antibody (Center) Blocking Peptide - References**

Nelson,D.R., Pharmacogenetics 14 (1), 1-18 (2004)