

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

CYP27C1 Antibody (Center) Blocking Peptide - Product InformationPrimary 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)