

**CYP2W1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7792a****Specification**

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**CYP2W1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q8TAV3](#)**CYP2W1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 54905**Other Names**

Cytochrome P450 2W1, 11414-, CYP11W1, CYP2W1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7792a](/products/AP7792a) was selected from the N-term region of human CYP2W1. 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.

**CYP2W1 Antibody (N-term) Blocking Peptide - Protein Information****Name** CYP2W1 {ECO:0000303|PubMed:26936974, ECO:0000312|HGNC:HGNC:20243}**Function**

A cytochrome P450 monooxygenase that may play a role in retinoid and phospholipid metabolism (PubMed: [22591743](http://www.uniprot.org/citations/22591743), PubMed: [26936974](http://www.uniprot.org/citations/26936974)). Catalyzes the hydroxylation of saturated carbon hydrogen bonds. Hydroxylates all trans-retinoic acid (atRA) to 4- hydroxyretinoate and may regulate atRA clearance. Other retinoids such as all-trans retinol and all-trans retinal are potential endogenous substrates (PubMed: [26936974](http://www.uniprot.org/citations/26936974)). Catalyzes both epoxidation of double bonds and hydroxylation of carbon hydrogen bonds of the fatty acyl chain of 1-acylphospholipids/2-lysophospholipids. Can metabolize various lysophospholipids classes including lysophosphatidylcholines (LPCs), lysophosphatidylinositols (LPIs), lysophosphatidylserines (LPSs), lysophosphatidylglycerols (LPGs), lysophosphatidylethanolamines (LPEs) and lysophosphatidic acids (LPAs) (PubMed: [26936974](http://www.uniprot.org/citations/26936974)).

<http://www.uniprot.org/citations/22591743> target="\_blank">22591743</a>). Has low or no activity toward 2-acylphospholipids/1-lysophospholipids, diacylphospholipids and free fatty acids (PubMed:<a href="http://www.uniprot.org/citations/22591743" target="\_blank">22591743</a>, PubMed:<a href="http://www.uniprot.org/citations/26936974" target="\_blank">26936974</a>). May play a role in tumorigenesis by activating procarcinogens such as aflatoxin B1, polycyclic aromatic hydrocarbon dihydrodiols and aromatic amines (PubMed:<a href="http://www.uniprot.org/citations/16551781" target="\_blank">16551781</a>, PubMed:<a href="http://www.uniprot.org/citations/20805301" target="\_blank">20805301</a>, PubMed:<a href="http://www.uniprot.org/citations/24278521" target="\_blank">24278521</a>). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:<a href="http://www.uniprot.org/citations/22591743" target="\_blank">22591743</a>, PubMed:<a href="http://www.uniprot.org/citations/26936974" target="\_blank">26936974</a>).

#### **Cellular Location**

Endoplasmic reticulum lumen. Cell membrane. Microsome membrane. Note=About 8% are expressed on the cell surface.

#### **Tissue Location**

Very low levels are detected in fetal and adult tissues. Highly expressed in several tumor samples, in particular colon and adrenal tumors.

### **CYP2W1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **CYP2W1 Antibody (N-term) Blocking Peptide - Images**

### **CYP2W1 Antibody (N-term) Blocking Peptide - Background**

CYP2W1 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.

### **CYP2W1 Antibody (N-term) Blocking Peptide - References**

Gomez,A., Pharmacogenomics 8 (10), 1315-1325 (2007)Karlgrén,M., Biochem. Biophys. Res. Commun. 341 (2), 451-458 (2006)Nelson,D.R., Pharmacogenetics 14 (1), 1-18 (2004)