

CYP2W1 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7792a**Specification**

CYP2W1 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q8TAV3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53844
Antigen Region	7-33

CYP2W1 Antibody (N-term) - Additional Information**Gene ID** 54905**Other Names**

Cytochrome P450 2W1, 11414-, CYP11W1, CYP2W1

Target/Specificity

This CYP2W1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-33 amino acids from the N-terminal region of human CYP2W1.

Dilution

WB~~1:1000

IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

CYP2W1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CYP2W1 Antibody (N-term) - 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](#), PubMed:[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](#)). 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:[22591743](#)). Has low or no activity toward 2-acylphospholipids/1-lysophospholipids, diacylphospholipids and free fatty acids (PubMed:[26936974](#), PubMed:[22591743](#)). May play a role in tumorigenesis by activating procarcinogens such as aflatoxin B1, polycyclic aromatic hydrocarbon dihydrodiols and aromatic amines (PubMed:[20805301](#), PubMed:[16551781](#), PubMed:[24278521](#)). 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:[22591743](#), PubMed:[26936974](#)).

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.

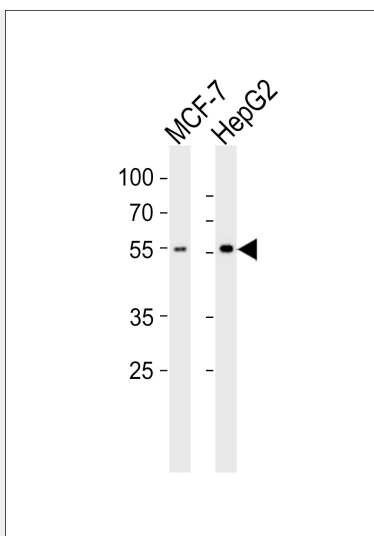
CYP2W1 Antibody (N-term) - Protocols

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

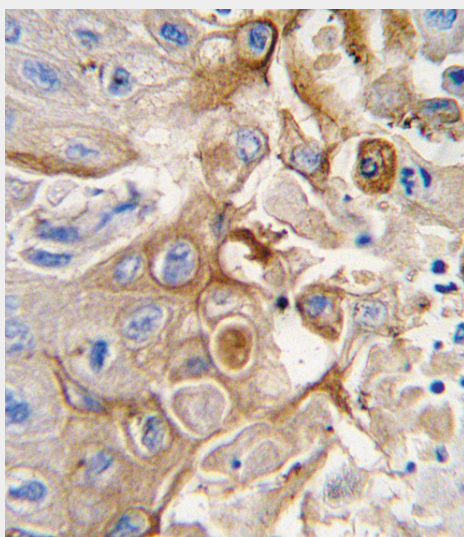
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CYP2W1 Antibody (N-term) - Images





Western blot analysis of lysates from MCF-7, HepG2 cell line (from left to right), using CYP2W1 Antibody (N-term)(Cat. #AP7792a). AP7792a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with CYP2W1 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

CYP2W1 Antibody (N-term) - 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) - References

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