10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CYP2W1 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14565

Specification

CYP2W1 antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q8TAV3
Other Accession	NM_017781, NP_060251
Reactivity	**Human, Rat, Pig, Horse, Bovine, Dog**
Predicted	**Human, Pig, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**54kDa KDa**

CYP2W1 antibody - C-terminal region - Additional Information

Gene ID 54905

Alias Symbol	**MGC34287**

Other Names
Cytochrome P450 2W1, 1.14.14.-, CYPIIW1, CYP2W1

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-CYP2W1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
CYP2W1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CYP2W1 antibody - C-terminal region - 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:22591743, PubMed:26936974). May play a role in tumorigenesis by activating procarcinogens such as aflatoxin B1, polycyclic aromatic hydrocarbon dihydrodiols and aromatic amines (PubMed:16551781, PubMed:20805301, 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.

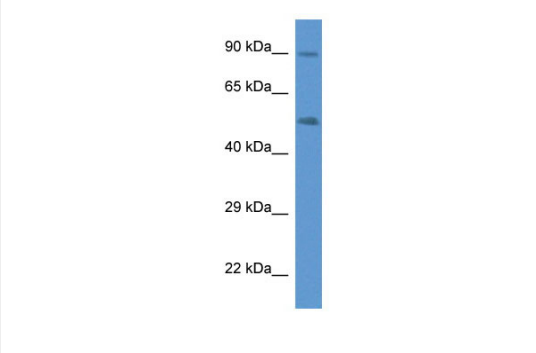
Tissue Location
Very low levels are detected in fetal and adult tissues. Highly expressed in several tumor samples, in particular colon and adrenal tumors.

CYP2W1 antibody - C-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CYP2W1 antibody - C-terminal region - Images



WB Suggested Anti-CYP2W1 Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Lung

10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CYP2W1 antibody - C-terminal region - References

Hillier L.W.,et al.Nature 424:157-164(2003).
Karlgren M.,et al.Biochem. Biophys. Res. Commun. 341:451-458(2006).
Wu Z.L.,et al.Mol. Pharmacol. 69:2007-2014(2006).
Gomez A.,et al.Mol. Pharmacol. 78:1004-1011(2010).
Eun C.Y.,et al.Toxicol. Res. 26:171-175(2010).