

**Anti-Cytochrome P450 2C9 Antibody**  
Catalog # AP53664**Specification****Anti-Cytochrome P450 2C9 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P11712</a>
Other Accession	<a href="#">Q5VX92</a> , <a href="#">Q8WW80</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55628

**Anti-Cytochrome P450 2C9 Antibody - Additional Information****Gene ID** 1559**Target/Specificity**

Recognizes endogenous levels of Cytochrome P450 2C9 protein.

**Dilution**

WB~~1/500 - 1/1000

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-Cytochrome P450 2C9 Antibody - Protein Information****Name** CYP2C9 {ECO:0000303|PubMed:11950794, ECO:0000312|HGNC:HGNC:2623}**Function**

A cytochrome P450 monooxygenase involved in the metabolism of various endogenous substrates, including fatty acids and steroids (PubMed: [12865317](http://www.uniprot.org/citations/12865317), PubMed: [15766564](http://www.uniprot.org/citations/15766564), PubMed: [19965576](http://www.uniprot.org/citations/19965576), PubMed: [21576599](http://www.uniprot.org/citations/21576599), PubMed: [7574697](http://www.uniprot.org/citations/7574697), PubMed: [9435160](http://www.uniprot.org/citations/9435160), PubMed: [9866708](http://www.uniprot.org/citations/9866708)).

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 (NADPH--hemoprotein reductase) (PubMed: [12865317](http://www.uniprot.org/citations/12865317), PubMed: [12865317](#)).

href="http://www.uniprot.org/citations/15766564" target="\_blank">15766564</a>, PubMed:<a href="http://www.uniprot.org/citations/19965576" target="\_blank">19965576</a>, PubMed:<a href="http://www.uniprot.org/citations/21576599" target="\_blank">21576599</a>, PubMed:<a href="http://www.uniprot.org/citations/7574697" target="\_blank">7574697</a>, PubMed:<a href="http://www.uniprot.org/citations/9435160" target="\_blank">9435160</a>, PubMed:<a href="http://www.uniprot.org/citations/9866708" target="\_blank">9866708</a>). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) (PubMed:<a href="http://www.uniprot.org/citations/15766564" target="\_blank">15766564</a>, PubMed:<a href="http://www.uniprot.org/citations/19965576" target="\_blank">19965576</a>, PubMed:<a href="http://www.uniprot.org/citations/7574697" target="\_blank">7574697</a>, PubMed:<a href="http://www.uniprot.org/citations/9866708" target="\_blank">9866708</a>). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes cholesterol toward 25-hydroxycholesterol, a physiological regulator of cellular cholesterol homeostasis (PubMed:<a href="http://www.uniprot.org/citations/21576599" target="\_blank">21576599</a>). Exhibits low catalytic activity for the formation of catechol estrogens from 17beta- estradiol (E2) and estrone (E1), namely 2-hydroxy E1 and E2 (PubMed:<a href="http://www.uniprot.org/citations/12865317" target="\_blank">12865317</a>). Catalyzes bisallylic hydroxylation and hydroxylation with double-bond migration of polyunsaturated fatty acids (PUFA) (PubMed:<a href="http://www.uniprot.org/citations/9435160" target="\_blank">9435160</a>, PubMed:<a href="http://www.uniprot.org/citations/9866708" target="\_blank">9866708</a>). Also metabolizes plant monoterpenes such as limonene. Oxygenates (R)- and (S)-limonene to produce carveol and perillyl alcohol (PubMed:<a href="http://www.uniprot.org/citations/11950794" target="\_blank">11950794</a>). Contributes to the wide pharmacokinetics variability of the metabolism of drugs such as S- warfarin, diclofenac, phenytoin, tolbutamide and losartan (PubMed:<a href="http://www.uniprot.org/citations/25994031" target="\_blank">25994031</a>).

#### Cellular Location

Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

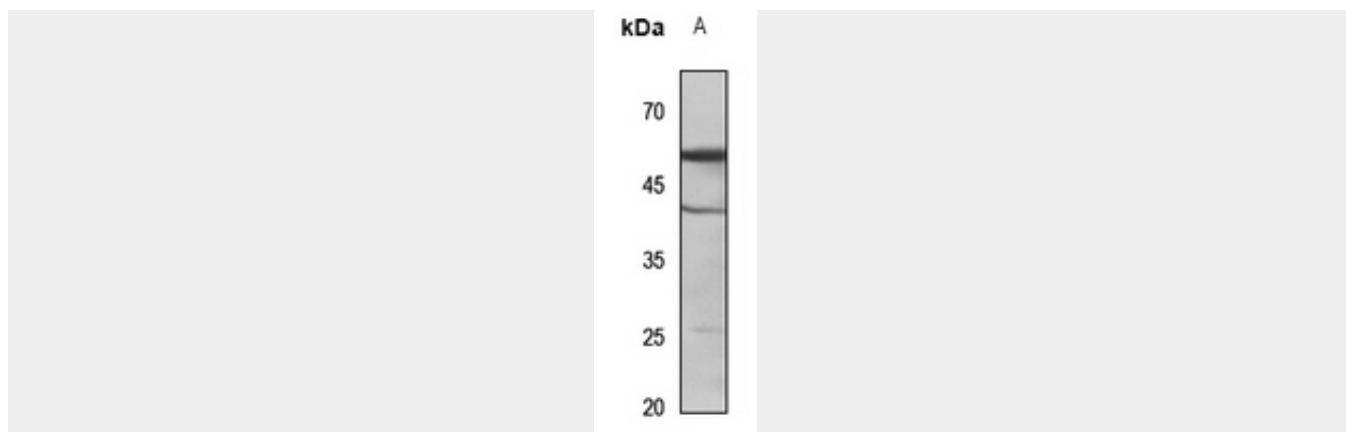
#### Anti-Cytochrome P450 2C9 Antibody - Protocols

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](#)

#### Anti-Cytochrome P450 2C9 Antibody - Images





Western blot analysis of Cytochrome P450 2C9 expression in mouse liver (A) whole cell lysates.

### **Anti-Cytochrome P450 2C9 Antibody - Background**

Rabbit polyclonal antibody to Cytochrome P450 2C9