

**Cytochrome P450 2C9 Antibody
Rabbit mAb
Catalog # AP91976**

Specification

Cytochrome P450 2C9 Antibody - Product Information

Application	WB, FC, ICC
Primary Accession	P11712
Clonality	Monoclonal
Other Names	
CPC9; CYP2C; CYP2C10; CYP2C9; CYPIIC9; P450 PB1; P450MP;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	55628 Da

Cytochrome P450 2C9 Antibody - Additional Information

Dilution	WB~~1:1000 FC~~1:10~50 ICC~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Cytochrome P450 2C9
Description	Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Cytochrome P450 2C9 Antibody - Protein Information

Name CYP2C9 {ECO:0000303|PubMed:11950794, ECO:0000312|HGNC:HGNC:2623}

Function

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

Cellular Location

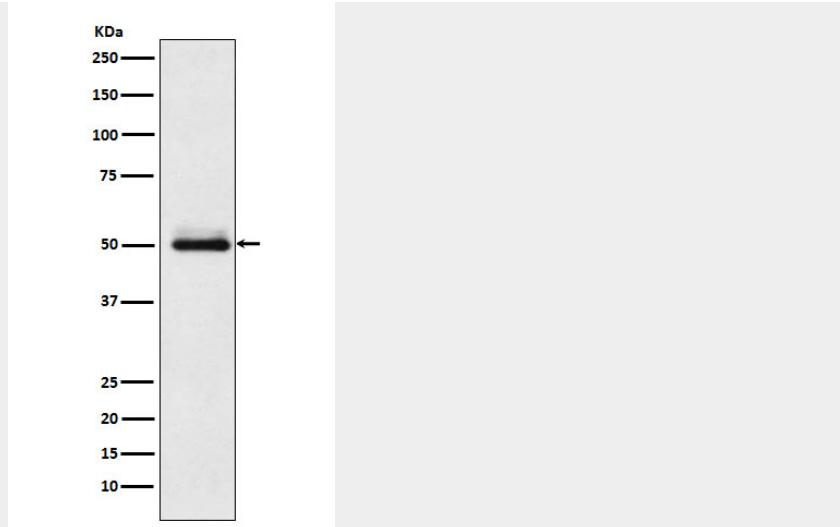
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

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](#)

Cytochrome P450 2C9 Antibody - Images



Western blot analysis of Cytochrome P450 2C9 expression in HepG2 cell lysate.