

Cytochrome P450 2C9 Rabbit mAb
Catalog # AP77082**Specification****Cytochrome P450 2C9 Rabbit mAb - Product Information**

Application	WB
Primary Accession	P11712
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	55628

Cytochrome P450 2C9 Rabbit mAb - Additional Information

Gene ID 1559

Other Names

CYP2C9

Dilution

WB~~1/500-1/1000

Format

Liquid

Cytochrome P450 2C9 Rabbit mAb - 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: [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)).

[9866708](http://www.uniprot.org/citations/9866708)). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) (PubMed:[15766564](http://www.uniprot.org/citations/15766564)), PubMed:[19965576](http://www.uniprot.org/citations/19965576)), PubMed:[7574697](http://www.uniprot.org/citations/7574697)), PubMed:[9866708](http://www.uniprot.org/citations/9866708)). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes cholesterol toward 25-hydroxycholesterol, a physiological regulator of cellular cholesterol homeostasis (PubMed:[21576599](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/12865317)). Catalyzes bisallylic hydroxylation and hydroxylation with double-bond migration of polyunsaturated fatty acids (PUFA) (PubMed:[9435160](http://www.uniprot.org/citations/9435160)), PubMed:[9866708](http://www.uniprot.org/citations/9866708)). Also metabolizes plant monoterpenes such as limonene. Oxygenates (R)- and (S)-limonene to produce carveol and perillyl alcohol (PubMed:[11950794](http://www.uniprot.org/citations/11950794)). Contributes to the wide pharmacokinetics variability of the metabolism of drugs such as S- warfarin, diclofenac, phenytoin, tolbutamide and losartan (PubMed:[25994031](http://www.uniprot.org/citations/25994031)).

Cellular Location

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

Cytochrome P450 2C9 Rabbit mAb - 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 Rabbit mAb - Images



