

**Product Name: CYP2C8/9/18/19 Rabbit Polyclonal Antibody****Catalog #: APRab09655**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	60kDa

**Antigen Information**

<b>Gene Name</b>	CYP2C8/9/18/19 CYP2C8; Cytochrome P450 2C8; CYP11C8; Cytochrome P450 11C2; Cytochrome P450 MP-12;
<b>Alternative Names</b>	Cytochrome P450 MP-20; Cytochrome P450 form 1; S-mephenytoin 4-hydroxylase; CYP2C9; CYP2C10; Cytochrome P450 2C9; (R)-limonene 6-monooxygenase; (S)-limonene
<b>Gene ID</b>	1562/1558/1559/1557
<b>SwissProt ID</b>	P10632/P11712/P33260/P33261
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 2C8/9/18/19. AA range:111-160

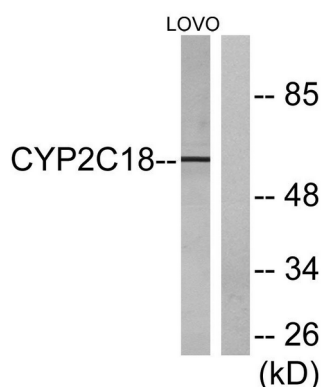
## Background

This gene encodes 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. This protein localizes to the endoplasmic reticulum and its expression is induced by phenobarbital. The enzyme is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, benzo(a)pyrene, 7-ethoxycoumarin, and the anti-cancer drug taxol. This gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Nov 2010], catalytic activity:  $\text{RH} + \text{reduced flavoprotein} + \text{O}_2 = \text{ROH} + \text{oxidized flavoprotein} + \text{H}_2\text{O}$ , caution: Alternative splicing has been shown to occur but the shorter forms are believed to be non-functional, cofactor: Heme group, function: 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. In the epoxidation of arachidonic acid it generates only 14,15- and 11,12-cis-epoxyeicosatrienoic acids. It is the principal enzyme responsible for the metabolism the anti-cancer drug paclitaxel (taxol), induction: By phenobarbital, online information: CYP2C8 alleles, similarity: Belongs to the cytochrome P450 family,

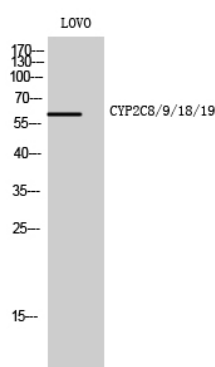
## Research Area

Arachidonic acid metabolism; Linoleic acid metabolism; Retinol metabolism; Metabolism of xenobiotics by cytochrome P450; Drug metabolism;

## Image Data



Western blot analysis of lysates from LOVO cells, using Cytochrome P450 2C8/9/18/19 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of LOVO cells using CYP2C8/9/18/19 Polyclonal Antibody

