

Summary

Production Name	CYP2C8 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,IF,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CYP2C8
Alternative Names	CYP2C8; Cytochrome P450 2C8; CYP11C8; Cytochrome P450 IIC2; Cytochrome P450 MP-12; Cytochrome P450 MP-20; Cytochrome P450 form 1; S-mephenytoin 4-hydroxylase
Gene ID	1558.0
SwissProt ID	P10632.The antiserum was produced against synthesized peptide derived from human CYP2C8. AA range:241-290

Application

Dilution Ratio	IHC-p: 1:100 - 1:300. IF 1:50-200 ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	

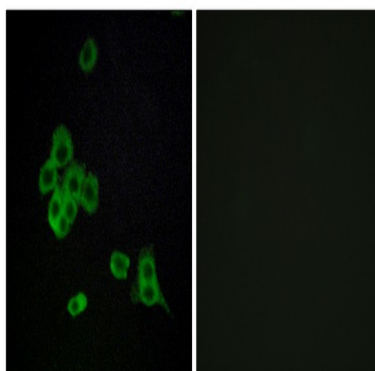
Background

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:RH + reduced flavoprotein + O(2) = ROH + oxidized flavoprotein + H(2)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

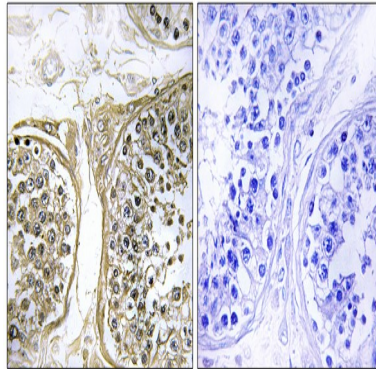
Arachidonic acid metabolism;Linoleic acid metabolism;Retinol metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;

Image Data



Immunofluorescence analysis of Cytochrome P450 2C8 Antibody. The lane on the right is blocked with the Cytochrome P450 2C8 peptide.

Product Name: CYP2C8 Rabbit Polyclonal Antibody
Catalog #: APRab09653



Immunohistochemistry analysis of paraffin-embedded human testis, using Cytochrome P450 2C8 Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.