

Summary

Production Name	CYP8B1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,
Reactivity	Human,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	CYP8B1
Alternative Names	CYP8B1; CYP12; 7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase; 7-alpha-hydroxy-4-cholesten-3-one 12-alpha-hydroxylase; CYPVIII B1; Cytochrome P450 8B1; Sterol 12-alpha-hydroxylase
Gene ID	1582.0
SwissProt ID	Q9UNU6.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 8B1. AA range:371-420

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000..
Molecular Weight	58kD

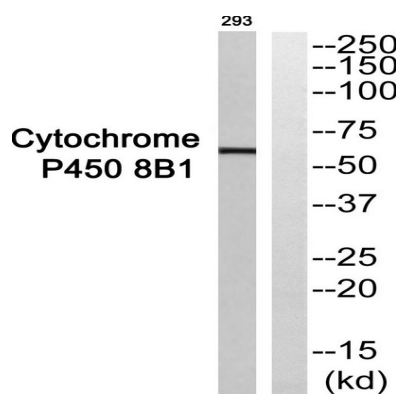
Background

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 endoplasmic reticulum membrane protein catalyzes the conversion of 7 alpha-hydroxy-4-cholesten-3-one into 7-alpha,12-alpha-dihydroxy-4-cholesten-3-one. The balance between these two steroids determines the relative amounts of cholic acid and chenodeoxycholic acid both of which are secreted in the bile and affect the solubility of cholesterol. This gene is unique among the cytochrome P450 genes in that it is intronless. [provided by RefSeq, Jul 2008],catalytic activity:7-alpha-hydroxycholest-4-en-3-one + NADPH + O(2) = 7-alpha,12-alpha-dihydroxycholest-4-en-3-one + NADP(+) + H(2)O.,cofactor:Heme group.,function:Involved in bile acid synthesis and is responsible for the conversion of 7 alpha-hydroxy-4-cholesten-3-one into 7 alpha, 12 alpha-dihydroxy-4-cholesten-3-one. Responsible for the balance between formation of cholic acid and chenodeoxycholic acid. Has a rather broad substrate specificity including a number of 7-alpha-hydroxylated C27 steroids.,similarity:Belongs to the cytochrome P450 family.,tissue specificity:Liver.,

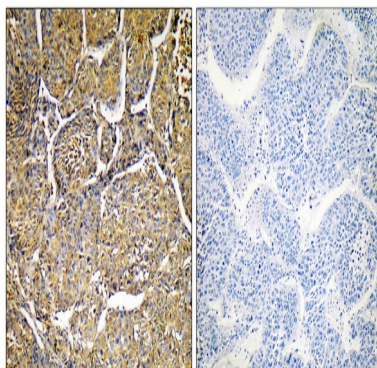
Research Area

Primary bile acid biosynthesis;PPAR;

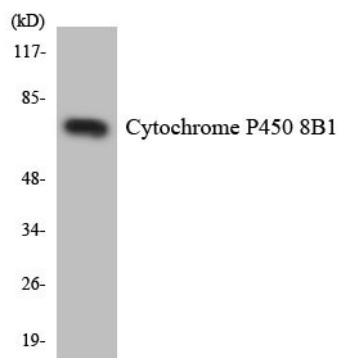
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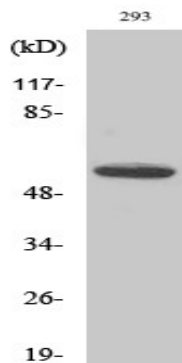
Product Name: CYP8B1 Rabbit Polyclonal Antibody
Catalog #: APRab09679



Immunohistochemistry analysis of paraffin-embedded human liver, using Cytochrome P450 8B1 Antibody. The lane on the right is blocked with the Cytochrome P450 8B1 peptide.



Western blot analysis of the lysates from HT-29 cells using Cytochrome P450 8B1 antibody.



Western Blot analysis of various cells using CYP8B1 Polyclonal Antibody

Note

For research use only.