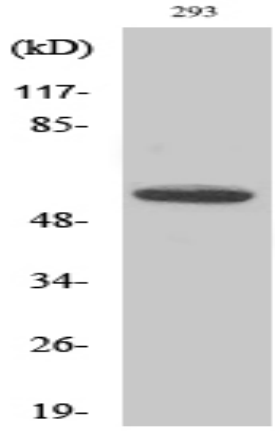
Best Tools for immunology Research

CYP8B1 Polyclonal Antibody

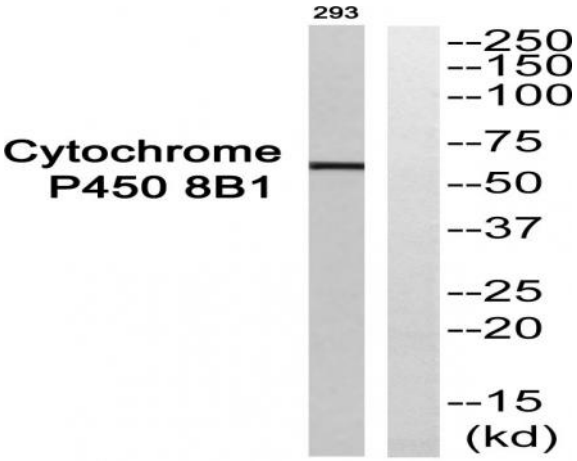
Catalog No :	YT1242
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	CYP8B1
Fields :	>>Primary bile acid biosynthesis;>>Metabolic pathways;>>PPAR signaling pathway
Gene Name :	CYP8B1
Protein Name :	7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase
Human Gene Id :	1582
Human Swiss Prot No :	Q9UNU6
Mouse Gene Id :	13124
Mouse Swiss Prot No :	O88962
Immunogen :	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 8B1. AA range:371-420
Specificity :	CYP8B1 Polyclonal Antibody detects endogenous levels of CYP8B1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	58kD
Cell Pathway :	Primary bile acid biosynthesis;PPAR;
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],
Function :	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.,
Subcellular Location :	Endoplasmic reticulum membrane ; Single-pass membrane protein . Microsome membrane ; Single-pass membrane protein .
Expression :	Liver.
Sort :	4823
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

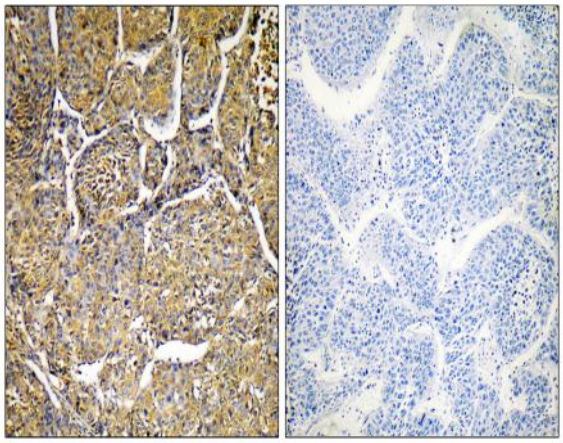
Products Images



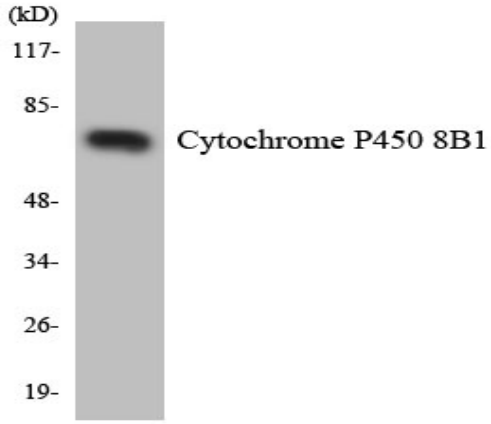
Western Blot analysis of various cells using CYP8B1 Polyclonal Antibody



Western blot analysis of Cytochrome P450 8B1 Antibody. The lane on the right is blocked with the Cytochrome P450 8B1 peptide.



Immunohistochemistryt 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.