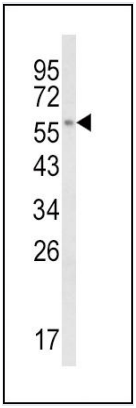
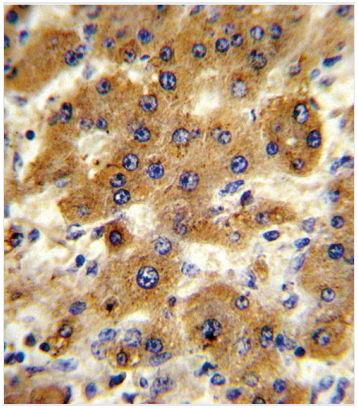
CYP8B1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

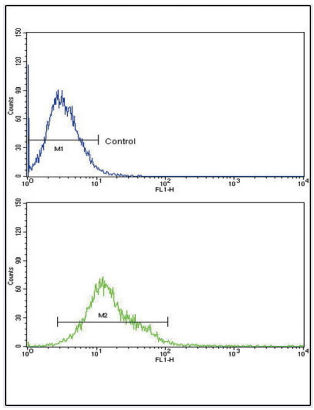
Product Name	CYP8B1, Polyclonal Antibody
Full Product Name	CYP8B1, CT (Sterol 12-alpha-hydroxylase, 7-alpha-hydroxy-4-cholesten-3-one 12-alpha-hydroxylase, CYPVIIIB1, Cytochrome P450 8B1, Sterol 12-alpha-hydroxylase, 7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase, CYP12) (MaxLight 490)
Product Gene Name	anti-CYP8B1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CYP8B1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	58kDa
OMIM	602172
3D Structure	ModBase 3D Structure for Q9UNU6
Immunogen	Synthetic peptide selected from the C-terminal region of human CYP8B1 (KLH).
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-CYP8B1 antibody	Antibodies; Enzymes; Cytochrome
Applications Tested/Suitable for anti-CYP8B1 antibody	Western Blot (WB), FLISA
Application Notes for anti-CYP8B1 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CYP8B1 antibody	MBS6471378 is an antibody targeting CYP8B1. Also known as CYP8B1, CT (Sterol 12-alpha-hydroxylase, 7-alpha-hydroxy-4-cholesten-3-one 12-alpha-hydroxylase, CYPVIIIB1, Cytochrome P450 8B1, Sterol 12-alpha-hydroxylase, 7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase, CYP12) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CYP8B1 antibody	1. Zhang, M. et.al., J. Biol. Chem. 276(45), 41690-41699 (2001). 2. Wang, J., et.al., Histochem. Cell Biol. 123(4-5), 441-446 (2005).
Other Notes	Small volumes of anti-CYP8B1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CYP8B1 antibody
Western blot analysis of CYP8B1 Antibody (C-term) in K562 cell line lysates (35ug/lane). CYP8B1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-CYP8B1 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with CYP8B1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-CYP8B1 antibody
CYP8B1 Antibody (C-term) flow cytometric analysis of k562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP8B1. It may not necessarily be applicable to this product.

NCBI GI #	166362724
NCBI GeneID	1582
NCBI Accession #	NP_004382
UniProt Primary Accession #	Q9UNU6
UniProt Related Accession #	Q9UNU6
GenBank Nucleotide #	NM_004391
NCBI Official Full Name	7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase
NCBI Official Synonym Full Names	cytochrome P450 family 8 subfamily B member 1
NCBI Official Symbol	CYP8B1
NCBI Official Synonym Symbols	CP8B; CYP12
UniProt Protein Name	7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase
UniProt Synonym Protein Names	7-alpha-hydroxy-4-cholesten-3-one 12-alpha-hydroxylase; CYPVIIIB1; Cytochrome P450 8B1; Sterol 12-alpha-hydroxylase

Protein Family	5-beta-cholestane-3-alpha,7-alpha-diol 12-alpha-hydroxylase
UniProt Gene Name	CYP8B1
UniProt Synonym Gene Names	CYP12
UniProt Entry Name	CP8B1_HUMAN
NCBI Protein Information	7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase
NCBI Summary for CYP8B1	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]
UniProt Comments for CYP8B1	CYP8B1: 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. Belongs to the cytochrome P450 family. Protein type: Membrane protein, integral; Oxidoreductase; EC 1.14.13.95; Lipid Metabolism - primary bile acid biosynthesis Chromosomal Location of Human Ortholog: 3p22.1 Cellular Component: endoplasmic reticulum membrane; endoplasmic reticulum; integral to membrane Molecular Function: sterol 12-alpha-hydroxylase activity; iron ion binding; 7alpha-hydroxycholest-4-en-3-one 12alpha-hydroxylase activity; heme binding; oxygen binding Biological Process: bile acid biosynthetic process; bile acid metabolic process; xenobiotic metabolic process; lipid metabolic process; sterol metabolic process
Research Articles on CYP8B1	**1.** RORalpha is a key regulator of diurnal rhythm and fasting induction of CYP8B1, which regulates bile acid composition and serum and liver cholesterol levels.
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