

Mouse CYP7A1-C Monoclonal Antibody | anti-CYP7A1-C antibody

CYP7A1-C Antibody

CATALOG # AAA111288	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

CYP7A1-C; Monoclonal Antibody; CYP7A1-C Antibody; CP7A; CYP7; CYPVII; MGC126826; MGC138389; anti-CYP7A1-C antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1
Specificity	This antibody detects endogenous levels of CYP7A1(C-term) and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%, glycerol
Sequence Length	504
Applicable Applications for anti-CYP7A1-C antibody	WB (Western Blot)
Immunogen	Purified recombinant human CYP7A1(C-term) protein fragments expressed in E Coli.
Cellular Localization	Endoplasmic reticulum membrane; Peripheral membrane protein

IMAGES



Application Data

Western blot detection of CYP7A1(C-terminus) antibody in HepG2 cell lysates using CYP7A1(C-terminus) antibody (1:1000 diluted). Predicted band size: 58KDa Observed band size: 72KDa.



Application Data

Western blot detection of CYP7A1 in U251 MG, mouse pancreas, Rat testis, HepG2 & Hela cell lysates and using CYP7A1 antibody (1:1000 diluted). Predicted band size: 58KDa Observed band size: 72KDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP7A1-C antibody

UniPort Summary Function: Catalyzes a rate-limiting step in cholesterol catabolism and bile acid biosynthesis by introducing a hydrophilic moiety at position 7 of cholesterol. Important for cholesterol homeostasis.

Entrez Summary: 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 first reaction in the cholesterol catabolic pathway in the liver, which converts cholesterol to bile acids. This reaction is the rate limiting step and the major site of regulation of bile acid synthesis, which is the primary mechanism for the removal of cholesterol from the body.

Product Categories/Family for anti-CYP7A1-C antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
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NCBI AND UNIPROT INFORMATION

NCBI GI #	166295200
NCBI GeneID	1581
NCBI Accession #	NP_000771.2
NCBI GenBank Nucleotide #	NM_000780
UniProt Accession #	P22680; P78454; Q3MIL8; Q7KZ19
Molecular Weight	72kDa
NCBI Official Full Name	cholesterol 7-alpha-monooxygenase
NCBI Official Synonym Full Names	cytochrome P450 family 7 subfamily A member 1
NCBI Official Symbol	CYP7A1
NCBI Official Synonym Symbols	CP7A; CYP7; CYPVII
NCBI Protein Information	cholesterol 7-alpha-monooxygenase
UniProt Protein Name	Cholesterol 7-alpha-monooxygenase
UniProt Gene Name	CYP7A1
UniProt Synonym Gene Names	CYP7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cyp7a1-c-antibody-western-blot-elisa/111288>