

Rabbit CYP7B1 Polyclonal Antibody | anti-CYP7B1 antibody

CYP7B1 Polyclonal Antibody

CATALOG # AAA268841	HOST Rabbit	APPLICATIONS Western Blot
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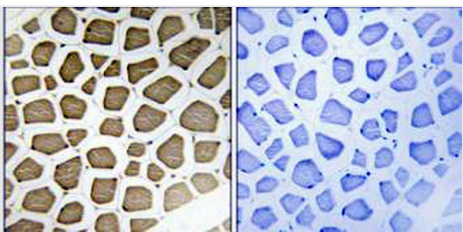
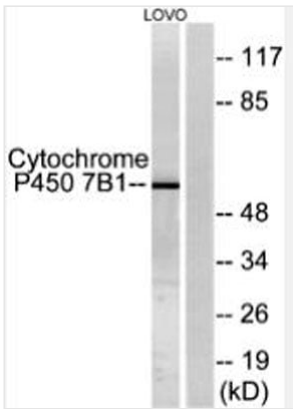
PRODUCT SYNONYMS

CYP7B1; Polyclonal Antibody; CYP7B1 Polyclonal Antibody; 25-hydroxycholesterol 7-alpha-hydroxylase; Cytochrome P450 7B1; Oxysterol 7-alpha-hydroxylase; anti-CYP7B1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Specificity	CYP7B1 Polyclonal Antibody detects endogenous levels of CYP7B1 protein.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Positions	101-150
Applicable Applications for anti-CYP7B1 antibody	WB (Western Blot)
Immunogen	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 7B1. AA range:101-150
Function	catalytic activity:Cholest-5-ene-3-beta,25-diol + NADPH + O(2) = cholest-5-ene-3-beta, 7-alpha,25-triol + NADP(+) + H(2)O., catalytic activity: Cholest-5-ene-3-beta, 27-diol + NADPH + O(2) = cholest-5-ene-3-beta,7-alpha, 27-triol + NADP(+) + H(2)O.,cofactor: Heme group., disease: Defects in CYP7B1 are the cause of congenital bile acid synthesis defect type 3 (CBAS3) [MIM:603711]. Clinical features include severe cholestasis, cirrhosis and liver synthetic failure. Hepatic microsomal oxysterol 7-alpha-hydroxylase activity is undetectable., disease: Defects in CYP7B1 are the cause of spastic paraplegia autosomal recessive type 5A (SPG5A) [MIM:270800]. Spastic paraplegia is a neurodegenerative disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs.
Subcellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Microsome membrane; Multi-pass membrane protein.
Expression	Widely expressed. Expressed in brain, testis, ovary, prostate, liver, colon, kidney, small intestine, thymus and spleen.
Preparation and Storage	-20°C/1 year

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human skeletal muscle. Antibody was diluted at 1:100 (4 degree C overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

WB (Western Blot)
Western blot analysis of lysates from LOVO cells, using Cytochrome P450 7B1 Antibody. The lane on the right is blocked with the synthesized peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP7B1 antibody

Cytochrome P450 family 7 subfamily B member 1(CYP7B1) Homo sapiens 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 of extrahepatic tissues, which converts cholesterol to bile acids. This enzyme likely plays a minor role in total bile acid synthesis, but may also be involved in the development of atherosclerosis, neurosteroid metabolism and sex hormone synthesis. Mutations in this gene have been associated with hereditary spastic paraplegia (SPG5 or HSP), an autosomal recessive disorder. [provided by RefSeq, Apr 2016].

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758104
NCBI GeneID	9420
NCBI Accession #	NP_004811.1
NCBI GenBank Nucleotide #	NP_004811.1
UniProt Accession #	O75881
Molecular Weight	Molecular Weight(Da):58256 Observed Band(KD):58
NCBI Official Full Name	cytochrome P450 7B1 isoform 1
NCBI Official Synonym Full Names	cytochrome P450 family 7 subfamily B member 1
NCBI Official Symbol	CYP7B1
NCBI Official Synonym Symbols	CP7B; CBAS3; SPG5A
NCBI Protein Information	cytochrome P450 7B1
UniProt Protein Name	25-hydroxycholesterol 7-alpha-hydroxylase
UniProt Gene Name	CYP7B1
UniProt Entry Name	CP7B1_HUMAN

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.

