

产品名称: CYP7B1 Rabbit Polyclonal Antibody
产品货号: APRab09678



产品概述 (Summary)

产品名称 (Production Name)	CYP7B1 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CYP7B1
别名 (Alternative Names)	CYP7B1; 25-hydroxycholesterol 7-alpha-hydroxylase; Cytochrome P450 7B1; Oxysterol 7-alpha-hydroxylase
基因 ID (Gene ID)	9420.0
蛋白 ID (SwissProt ID)	O75881.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 7B1. AA range:101-150

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
蛋白分子量 (Molecular Weight)	58kDa

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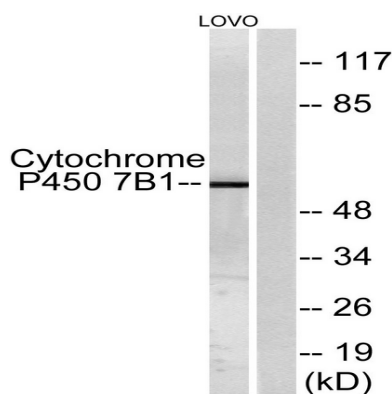
研究背景 (Background)

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 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], 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. Rate of progression and the severity of symptoms are quite variable. Initial symptoms may include difficulty with balance, weakness and stiffness in the legs, muscle spasms, and dragging the toes when walking. In some forms of the disorder, bladder symptoms (such as incontinence) may appear, or the weakness and stiffness may spread to other parts of the body., pathway: Lipid metabolism; bile acid biosynthesis., similarity: Belongs to the cytochrome P450 family., tissue specificity: Brain, testis, ovary, prostate, liver, colon, kidney, and small intestine.,

研究领域 (Research Area)

Primary bile acid biosynthesis; Steroid hormone biosynthesis;

图片 (Image Data)



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

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

注意事项 (Note)

For research use only .