

CYP7A1 Monoclonal Antibody

Catalog No :	YM1026
Reactivity :	Human;Golden hamster
Applications :	WB
Target :	CYP7A1
Fields :	>>Primary bile acid biosynthesis;>>Steroid hormone biosynthesis;>>Metabolic pathways;>>PPAR signaling pathway;>>Bile secretion;>>Cholesterol metabolism
Gene Name :	CYP7A1
Protein Name :	Cholesterol 7-alpha-monooxygenase
Human Gene Id :	1581
Human Swiss Prot No :	P22680
Mouse Swiss Prot No :	Q64505
Immunogen :	Purified recombinant human CYP7A1 (C-terminus) protein fragments expressed in E.coli.
Specificity :	CYP7A1 Monoclonal Antibody detects endogenous levels of CYP7A1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000 - 1:2000. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 58kD

Cell Pathway : Primary bile acid biosynthesis;Steroid hormone biosynthesis;PPAR;

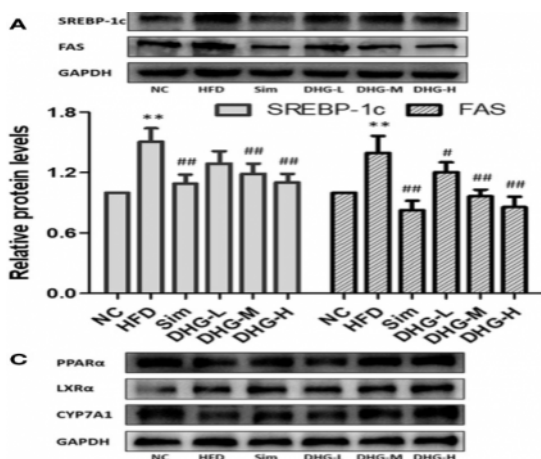
Background : This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum membrane protein catalyzes the 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. Polymorphisms in the promoter of this gene are associated with defects in bile acid synthesis. [provided by RefSeq, Feb 2010],

Function : catalytic activity:Cholesterol + NADPH + O(2) = 7-alpha-hydroxycholesterol + NADP(+) + H(2)O.,cofactor:Heme group.,online information:Cholesterol-7 alpha-hydroxylase entry,pathway:Lipid metabolism; bile acid biosynthesis.,similarity:Belongs to the cytochrome P450 family.,

Subcellular Location : Endoplasmic reticulum membrane ; Single-pass membrane protein . Microsome membrane ; Single-pass membrane protein .

Expression : Detected in liver.

Products Images



Chen, Kuikui, et al. "Investigation of the lipid-lowering mechanisms and active ingredients of Danhe granule on hyperlipidemia based on systems pharmacology." *Frontiers in pharmacology* 11 (2020): 528.

(kD)

117-

Jurkat

K562

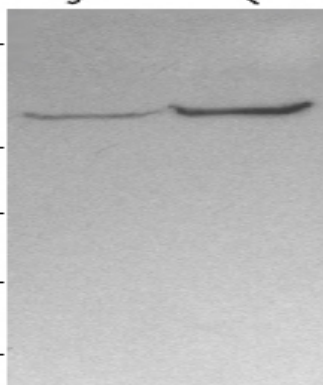
85-

48-

34-

26-

19-



← CYP7A1

Western Blot analysis using CYP7A1 Monoclonal Antibody against Jurkat, K562 cell lysate.