

## CYP7A1 Monoclonal Antibody

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

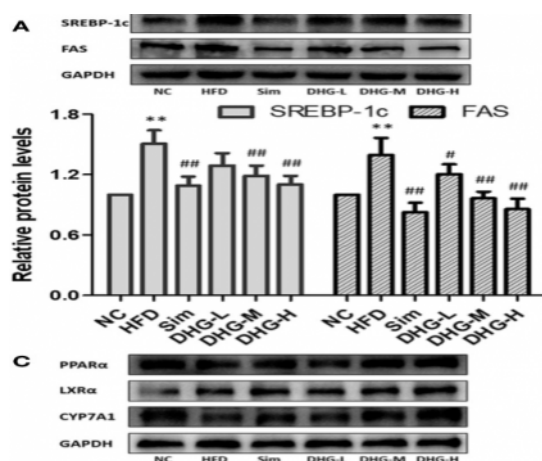
**Background :** This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum membrane protein catalyzes 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.,

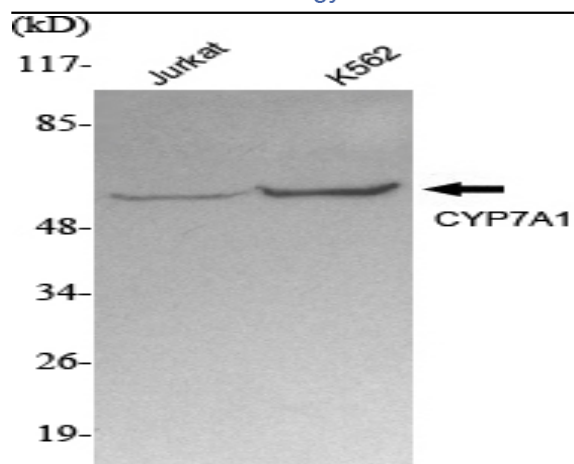
**Subcellular Location :** Endoplasmic reticulum membrane ; Single-pass membrane protein . Microsome membrane ; Single-pass membrane protein .

**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.



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