



# CYP7A1 Monoclonal Antibody

<b>Catalog No</b>	BYab-02349
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Golden hamster
<b>Applications</b>	WB
<b>Gene Name</b>	CYP7A1
<b>Protein Name</b>	Cholesterol 7-alpha-monooxygenase
<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>	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	CYP7A1; CYP7; Cholesterol 7-alpha-monooxygenase; CYPVII; Cholesterol 7-alpha-hydroxylase; Cytochrome P450 7A1
<b>Observed Band</b>	
<b>Cell Pathway</b>	Endoplasmic reticulum membrane ; Single-pass membrane protein . Microsome membrane ; Single-pass membrane protein .
<b>Tissue Specificity</b>	Detected in liver.
<b>Function</b>	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.,
<b>Background</b>	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

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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],

**matters needing attention**

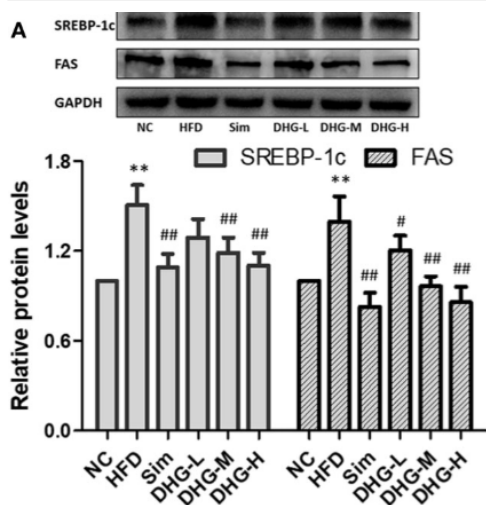
Avoid repeated freezing and thawing!

**Usage suggestions**

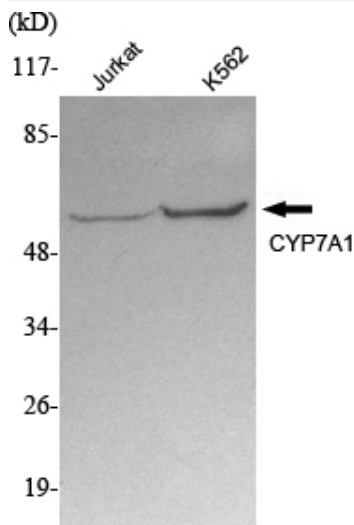
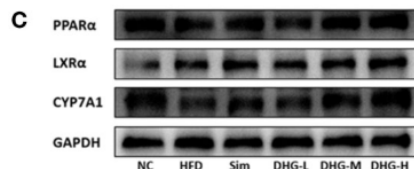
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



## 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.