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## CYP7A1 Rabbit pAb

Catalog Number: bs-21430R

Target Protein: CYP7A1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Human, Mouse (predicted:Rat)

Predicted MW: 55 kDa

Entrez Gene: 13122

Swiss Prot: Q64505

Source: KLH conjugated synthetic peptide derived from mouse CYP7A1: 50-150/504.

Purification: affinity purified by Protein A

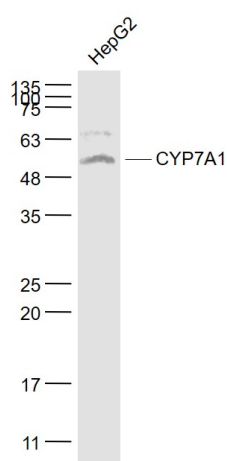
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

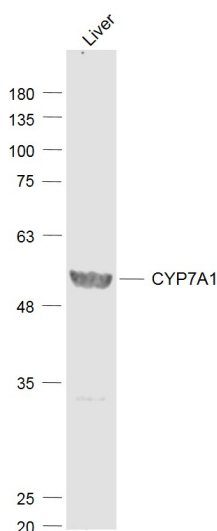
**Background:** This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum membrane protein catalyzes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

### VALIDATION IMAGES

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Sample: HepG2(Human) Cell Lysate at 30 ug Primary: Anti- CYP7A1 (bs-21430R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kD Observed band size: 55 kD



Sample: Liver (Mouse) Lysate at 40 ug Primary: Anti-CYP7A1 (bs-21430R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kD Observed band size: 55 kD

## PRODUCT SPECIFIC PUBLICATIONS

[IF=17.694] Tang Bo. et al. Gut microbiota alters host bile acid metabolism to contribute to intrahepatic cholestasis of pregnancy. NAT COMMUN. 2023 Mar;14(1):1-17 IHC ; Mouse . 36894566

[IF=7] Zhang, Yaxin. et al. Stigmasterol attenuates hepatic steatosis in rats by strengthening the intestinal barrier and improving bile acid metabolism. npj Science of Food. 2022 Aug;6(1):1-14 WB,IF ; Rat . 10.1038/s41538-022-00156-0

[IF=6.78] Shuzhou Wang. et al. Effects of NAC assisted insulin on cholesterol metabolism disorders in canine type 1 diabetes mellitus. LIFE SCI. 2022 Dec;;121193 WB ; Dog . 36463942

[IF=6.376] Pan Jianping. et al. Hypolipidemic effect of ethanol extract from Chimonanthus nitens Oliv. leaves in hyperlipidemia rats via activation of the leptin/JAK2/STAT3 pathway. MOL MED. 2022 Dec;28(1):1-12 WB ; Rat . 36539694

[IF=5.6] Tao Yiwen. et al. Ji-Ni-De-Xie ameliorates type 2 diabetes mellitus by modulating the bile acids metabolism and FXR/FGF15 signaling pathway. FRONT PHARMACOL. 2024 May;15: WB ; Rat . 38835663