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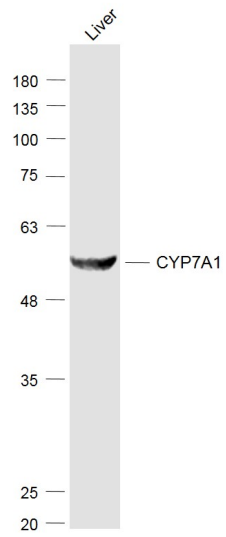
CYP7A1 Rabbit pAb

Catalog Number:	bs-21429R
Target Protein:	CYP7A1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000)
Reactivity:	Mouse (predicted:Human, Rat)
Predicted MW:	55 kDa
Subcellular Locations:	Cell membrane
Entrez Gene:	1581
Swiss Prot:	P22680
Source:	KLH conjugated synthetic peptide derived from human CYP7A1: 321-421/504.
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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Sample: Liver (Mouse) Lysate at 40 ug Primary: Anti-CYP7A1 (bs-21429R) 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=7.9] Li Xiao. et al. Kaempferol ameliorated alcoholic liver disease through inhibiting hepatic bile acid synthesis by targeting intestinal FXR-FGF15 signaling. PHYTOMEDICINE. 2023 Nov;120:155055 WB ; Mouse . 37678053

[IF=6.9] Dongmei Qin. et al. Lupeol improves bile acid metabolism and metabolic dysfunction-associated steatotic liver disease in mice via FXR signaling pathway and gut-liver axis. BIOMED PHARMACOTHER. 2024 Aug;177:116942 WB ; Mouse . 38889641

[IF=6.684] Wu P. et al. Arbutin Alleviates the Liver Injury of α-Naphthylisothiocyanate-induced Cholestasis Through Farnesoid X Receptor Activation.. Front Cell Dev Biol. 2021 Dec;9:758632-758632 WB ; Mouse . 34926449

[IF=6.656] Dina Tawulie. et al. Jiang-Tang-San-Huang pill alleviates type 2 diabetes mellitus through modulating the gut microbiota and bile acids metabolism. PHYTOMEDICINE. 2023 Feb;:154733 WB ; Rat . 36870307

[IF=4.546] Li S et al. Dietary Betaine Addition Promotes Hepatic Cholesterol Synthesis, Bile Acid Conversion, and Export in Rats. Nutrients. 2020 May 13;12(5):1399. WB ; Rat . 32414094

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