bs-2399R **[Primary Antibody]**

CYP7A1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1581 **SWISS:** P22680

Target: CYP7A1

Immunogen: KLH conjugated synthetic peptide derived from human CYP7A1: 351-400/504.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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].

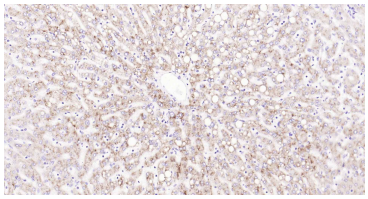
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, GuineaPig)

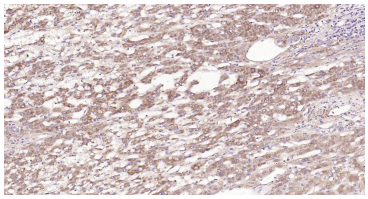
Predicted MW.: 55 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Human Liver ; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CYP7A1 Polyclonal Antibody, Unconjugated (bs-2399R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Liver Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CYP7A1 Polyclonal Antibody, Unconjugated (bs-2399R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=7.943]** Shen X et al. Low-dose PCB126 compromises circadian rhythms associated with disordered glucose and lipid metabolism in mice. Environ Int. 2019 Jul;128:146-157. WB ;Mouse. 31055201
- **[IF=5.5]** Zhong D et al. Ganoderma Lucidum Polysaccharide Peptide Alleviates Hepatoteatosis via Modulating Bile Acid Metabolism Dependent on FXR-SHP/FGF.(2018)Cell Physiol Biochem.49(3):1163-1179. IHC,WB ;Mouse. 30196282
- **[IF=5.6]** Ching-Wei Yang. et al. Puerarin Modulates Hepatic Farnesoid X Receptor and Gut Microbiota in High-Fat Diet-Induced Obese Mice. INT J MOL SCI. 2024 Jan;25(10):5274 IF ;Mouse. 38791314
- **[IF=4.9]** Xingtong Chen. et al.Animal Model Screening for Hyperlipidemic ICR Mice..INTERNATIONAL JOURNAL OF

MOLECULAR SCIENCES.2025 Feb 27;26(5):2142. IF ;Mouse. 40076768

- **[IF=4.546]** Li Mei. et al. Therapeutic mechanisms of the medicine and food homology formula Xiao-Ke-Yin on glucolipid metabolic dysfunction revealed by transcriptomics, metabolomics and microbiomics in mice. CHIN MED-UK. 2023 Dec;18(1):1-24 IHC ;Mouse. 37202792