bs-5049R **[Primary Antibody]**

CYP27A1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1593 **SWISS:** Q02318

Target: CYP27A1

Immunogen: KLH conjugated synthetic peptide derived from human CYP27A1: 321-420/531.

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 mitochondrial protein oxidizes cholesterol intermediates as part of the bile synthesis pathway. Since the conversion of cholesterol to bile acids is the major route for removing cholesterol from the body, this protein is important for overall cholesterol homeostasis. Mutations in this gene cause cerebrotendinous xanthomatosis, a rare autosomal recessive lipid storage disease. [provided by RefSeq, Jul 2008].

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Cow, Dog, Horse)

Predicted MW.: 57 kDa

Subcellular Location: Cell membrane ,Cytoplasm

SELECTED CITATIONS

- **[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=4.294]** Yaochang Wei. et al. Targeted metabolomics analysis of bile acids and cell biology studies reveal the critical role of glycodeoxycholic acid in buffalo follicular atresia. J STEROID BIOCHEM. 2022 Jul;221:106115 IHC ;Bovine. 35460848
- **[IF=4.4]** Xiao Ying. et al. Pulsatilla decoction alleviates DSS-induced UC by activating FXR-ASBT pathways to ameliorate disordered bile acids homeostasis. FRONT PHARMACOL. 2024 Jun;15: WB ;Mouse. 38974033
- **[IF=4.4]** Yanruyu Feng. et al. Integrative analysis of non12-hydroxylated bile acid revealed the suppressed molecular map of alternative pathway in nonalcoholic steatohepatitis mice. FASEB J. 2024 Nov;38(22):e70167 WB ;Mouse. 39556333