

**bs-20586R****[ Primary Antibody ]****BioSS**  
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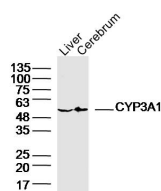
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**CYP3A1 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 25642 <b>Target:</b> CYP3A1 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from rat CYP3A1: 231-330/504. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <b>Background:</b> CYP3A proteins are P450 monooxygenases and in animals, P450 enzymes serve two major functions: biosynthesis of steroids, fatty acids and bile acids, and the metabolism of endogenous and exogenous substrates. A wide variety of exogenous substrates are metabolized by P450 enzymes, including toxins and drugs. The four major families involved in drug metabolism are CYP1, 2, 3 and 4. The hepatic CYP3A1 protein is detected throughout ciliated and nonciliated cells in seven-day-old rats, and is only detected in the apex of these cells in adult rats. Rat CYP3A1 and CYP3A2 share 89% homology, but differ by three out of five of their C-terminal residues.	<b>Isotype:</b> IgG <b>SWISS:</b> P04800	<b>Applications:</b> WB (1:500-2000) <b>Reactivity:</b> Rat  <b>Predicted MW.:</b> 57 kDa <b>Subcellular Location:</b> Cell membrane ,Cytoplasm
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**— VALIDATION IMAGES —**

Sample: Liver (Rat)Lysate at 40 ug Cerebrum (Rat)Lysate at 40 ug  
Primary: Anti-CYP3A1(bs-20586R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution  
Predicted band size: 57kD Observed band size: 57kD

**— SELECTED CITATIONS —**

- **[IF=4.36]** Xiangling Feng. et al. Inhibitory effects of traditional Chinese medicine colquhounia root tablet on the pharmacokinetics of tacrolimus in rats. J ETHNOPHARMACOL. 2022 Aug;294:115358 WB ;Rat. 35551976
- **[IF=4.2]** Qian Zhu. et al. Chronic alcohol intake disrupts cytochrome P450 enzyme activity in alcoholic fatty liver disease: insights into metabolic alterations and therapeutic targets. FRONT CHEM. 2025 May;13: WB ;Rat. 40433307
- **[IF=1.785]** Hongfang Li. et al. Effects of Xiaochaihu decoction on the expression of cytochrome P450s in rats. Exp Ther Med. 2021 Jun;21(6):1-9 WB ;Rat. 33850560

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