bs-4562R **[Primary Antibody]**

CYP2E1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1571 **SWISS:** P05181

Target: CYP2E1

Immunogen: KLH conjugated synthetic peptide derived from human CYP2E1: 401-493/493.

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: The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and biosynthesis. Cytochrome P450 2E1 is induced by ethanol, diabetes and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, and exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer.

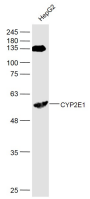
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1:100-500)

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

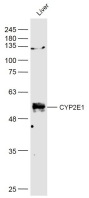
Predicted MW.: 57 kDa

Subcellular Location: Cell membrane ,Cytoplasm

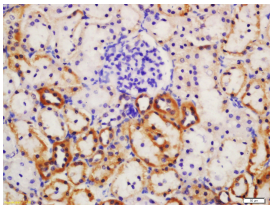
VALIDATION IMAGES



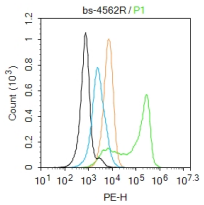
Sample: HepG2(Human) Cell Lysate at 30 ug Primary: Anti-CYP2E1 (bs-4562R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD



Sample: Liver (Mouse) Lysate at 40 ug Primary: Anti-CYP2E1 (bs-4562R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CYP2E1 Polyclonal Antibody, Unconjugated(bs-4562R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:U937. Primary Antibody (green line): Rabbit Anti-CYP2E1 antibody (bs-4562R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg

/test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=6.8]** Ye Jiazhou. et al. Single cell-spatial transcriptomics and bulk multi-omics analysis of heterogeneity and ecosystems in hepatocellular carcinoma. NPJ PRECIS ONCOL. 2024 Nov;8(1):1-18 IHC ;Human. 39548284
- **[IF=4.505]** Wang H et al. Regulatory T cells suppress excessive lipid accumulation in alcoholic liver disease. J Lipid Res. 2019 Feb 21. IHC ;Mouse. 30792182
- **[IF=4.784]** Wang C et al. A novel acidic polysaccharide from the residue of Panax notoginseng and its hepatoprotective effect on alcoholic liver damage in mice. Int J Biol Macromol. 2020 Feb 6;149:1084-1097. WB,IF ;Mouse. 32035151
- **[IF=5.4]** Shilin Sun. et al. The therapeutic effect of wine-processed Corni Fructus on chronic renal failure in rats through the interference with the LPS/IL-1-mediated inhibition of RXR function. J ETHNOPHARMACOL. 2024 Mar;321:117511 WB ;Rat. 38036016
- **[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