

BOSTER BIOLOGICAL TECHNOLOGY

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

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Basic Inform	nation	
Product Name	Anti-CYP2E1 Antibody	
Gene Name	CYP2E1	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, FCM, ELISA	
Contents	500 ug/ml antibody with PBS $_{2}$ 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human Cytochrome P450 2E1/CYP2E1 recombinant protein (Position: H355-S493).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	57KD	
Dilution Ratios	Western blot(WB): Immunohistochemistry in paraffin section (IHC): Flow cytometry (FCM): (ELISA): (Boiling the paraffin sections in 10mM citrate buffer mins is required for the staining of formalin/paraffin must be determined by end user.	11 1

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Cytochrome P450 2E1 (abbreviated CYP2E1), a member of the cytochrome P450 mixed-function oxidase system, is involved in the metabolism of xenobiotics in the body. In humans, the CYP2E1 enzyme is encoded by the CYP2E1 gene. It is mapped to 10q26.3. While it is involved in the oxidative metabolism of a small range of substrates (mostly small polar molecules), there are many important drug interactions mediated by CYP2E1. Most drugs undergo deactivation by CYP2E1, either directly or by facilitated excretion from the body. Also, many substances are bioactivated by CYP2E1 to form their active compounds. In addition, CYP2E1 is an important enzyme for the conversion of ethanol to acetaldehyde and to acetate in humans. In the conversion sequence of acetyl-CoA to glucose, CYP2E1 transforms acetone via acetol into propylene glycol and methylglyoxal, the precursors of pyruvate, acetate and lactate.

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Selected Validation Data

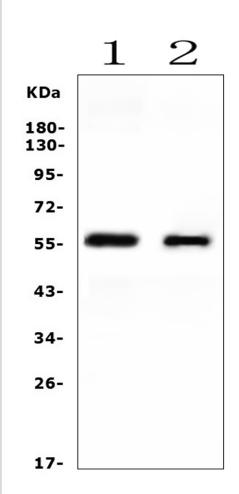


Figure 1. Western blot analysis of anti-CYP2E1 antibody (A00672). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysate, Lane 2: mouse liver tissue lysate, Use rabbit anti- CYP2E1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CYP2E1 at approximately 57KD. The expected band size for CYP2E1 is at 57KD.

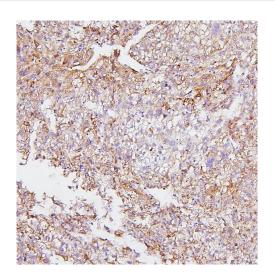


Figure 2.IHC analysis using anti-CYP2E1 antibody (A00672). detected in paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

Product datasheet Anti-CYP2E1 Antibody

Catalog Number: A00672



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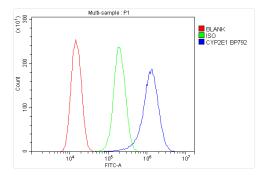


Figure 6.Flow cytometry analysis of SiHa cell(1x106) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).