

## Basic Information

<b>Product Name</b>	Anti-CYP2E1 Antibody (Clone#2C7G1)
<b>Gene Name</b>	CYP2E1
<b>Source</b>	Mouse
<b>Isotype</b>	IgG2b
<b>Species Reactivity</b>	human, mouse, rat
<b>Tested Application</b>	WB
<b>Contents</b>	500 ug/ml antibody with PBS , 0.02% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 1 mg BSA and 50% glycerol.
<b>Immunogen</b>	E.coli-derived human Cytochrome P450 2E1/CYP2E1 recombinant protein (Position: H355-S493).
<b>concentration</b>	500 ug/ml
<b>Purification</b>	protein G purified.
<b>Observed MW</b>	57KD
<b>Dilution Ratios</b>	Western blot(WB):1:500-2000

## 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.

## Selected Validation Data

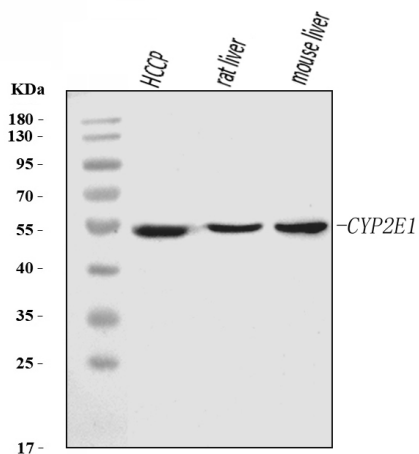


Figure 1. Western blot analysis of anti- CYP2E1 Antibody

(M00672-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: HCCP tissue lysates,

Lane 2: rat liver tissue lysates,

Lane 3: mouse liver tissue lysates.

Use mouse anti- CYP2E1 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for CYP2E1 at approximately 57KD. The expected band size for CYP2E1 is at 57KD.