

**CYP2E1 Polyclonal Antibody**  
Catalog # AP69403**Specification****CYP2E1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P05181</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**CYP2E1 Polyclonal Antibody - Additional Information****Gene ID** 1571**Other Names**

CYP2E1; CYP2E; Cytochrome P450 2E1; 4-nitrophenol 2-hydroxylase; CYP1IIE1; Cytochrome P450-J

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**CYP2E1 Polyclonal Antibody - Protein Information****Name** CYP2E1 {ECO:0000303|PubMed:10553002, ECO:0000312|HGNC:HGNC:2631}**Function**

A cytochrome P450 monooxygenase involved in the metabolism of fatty acids (PubMed:<a href="http://www.uniprot.org/citations/10553002" target="\_blank">10553002</a>, PubMed:<a href="http://www.uniprot.org/citations/18577768" target="\_blank">18577768</a>). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH--hemoprotein reductase) (PubMed:<a href="http://www.uniprot.org/citations/10553002" target="\_blank">10553002</a>, PubMed:<a href="http://www.uniprot.org/citations/18577768" target="\_blank">18577768</a>). Catalyzes the hydroxylation of carbon-hydrogen bonds. Hydroxylates fatty acids specifically at the omega-1 position displaying the highest catalytic activity for saturated fatty acids (PubMed:<a href="http://www.uniprot.org/citations/10553002" target="\_blank">10553002</a>, PubMed:<a href="http://www.uniprot.org/citations/18577768" target="\_blank">18577768</a>). May be involved in the oxidative metabolism of xenobiotics (Probable).

**Cellular Location**

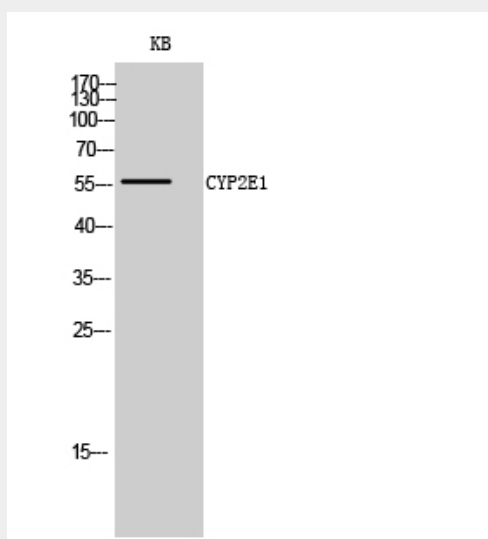
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P05182}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05182}. Microsome membrane {ECO:0000250|UniProtKB:P05182}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05182}. Mitochondrion inner membrane {ECO:0000250|UniProtKB:P05182}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05182}. Note=Post-translationally targeted to mitochondria. TOMM70 is required for the translocation across the mitochondrial outer membrane. After translocation into the matrix, associates with the inner membrane as a membrane extrinsic protein {ECO:0000250|UniProtKB:P05182}

### CYP2E1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CYP2E1 Polyclonal Antibody - Images



### CYP2E1 Polyclonal Antibody - Background

Metabolizes several precarcinogens, drugs, and solvents to reactive metabolites. Inactivates a number of drugs and xenobiotics and also bioactivates many xenobiotic substrates to their hepatotoxic or carcinogenic forms.