

# CYP2E1 Antibody

Rabbit mAb

Catalog # AP91184

## Product Information

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P05181</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	Cytochrome P450 2E1; CYP11E1; Cytochrome P450-J; CYP2E; P450C2E; CYP11E1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	56849

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human CYP2E1
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

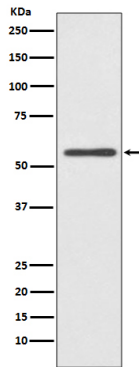
## Protein Information

<b>Name</b>	CYP2E1 {ECO:0000303 PubMed:10553002, ECO:0000312 HGNC:HGNC:2631}
<b>Function</b>	A cytochrome P450 monooxygenase involved in the metabolism of fatty acids (PubMed: <a href="#">10553002</a> , PubMed: <a href="#">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="#">10553002</a> , PubMed: <a href="#">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="#">10553002</a> , PubMed: <a href="#">18577768</a> ). May be involved in the oxidative metabolism of xenobiotics (Probable).
<b>Cellular Location</b>	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}

## Images

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Western blot analysis of CYP2E1 expression in HeLa cell lysate.

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