

**CYP2E1 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3331a

### Specification

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#### CYP2E1 Antibody (internal region) - Product Information

Application	WB, IHC
Primary Accession	<a href="#">P05181</a>
Other Accession	<a href="#">NP_000764.1</a> , <a href="#">1571</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	56849

#### CYP2E1 Antibody (internal region) - Additional Information

Gene ID 1571

##### Other Names

Cytochrome P450 2E1, 1.14.13.-, 4-nitrophenol 2-hydroxylase, 1.14.13.n7, CYP11E1, Cytochrome P450-J, Cytochrome P450 2E1, N-terminally processed, CYP2E1, CYP2E

##### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

##### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

CYP2E1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

#### CYP2E1 Antibody (internal region) - 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/10553002" target="\_blank">10553002</a>).

[18577768](http://www.uniprot.org/citations/18577768)). 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:[10553002](http://www.uniprot.org/citations/10553002), PubMed:[18577768](http://www.uniprot.org/citations/18577768)). 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 Antibody (internal region) - Protocols

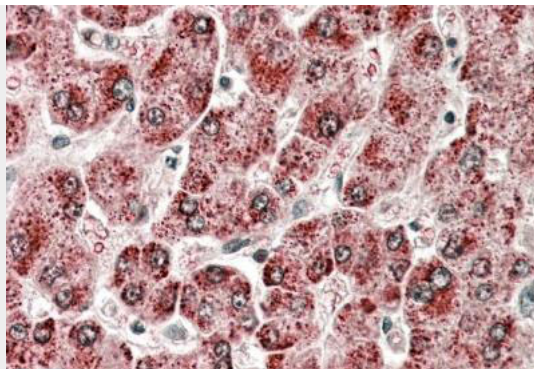
Provided below are standard protocols that you may find useful for product applications.

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

#### CYP2E1 Antibody (internal region) - Images



AF3331a (0.05 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF3331a (3.8 µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **CYP2E1 Antibody (internal region) - References**

CYP2E1 Rsa I/Pst I polymorphism and esophageal cancer risk: a meta-analysis based on 1,088 cases and 2,238 controls. Niu Y, Yuan H, Leng W, Pang Y, Gu N, Chen N, Medical oncology (Northwood, London, England) 2010 Mar : . PMID: 20195803