

Cytochrome P450 2E1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51692

Specification

Cytochrome P450 2E1 Antibody - Product Information

Application	WB, ICC, E
Primary Accession	P05181
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57 KDa

Cytochrome P450 2E1 Antibody - Additional Information

Gene ID 1571

Other Names

Cytochrome P450 2E1, 11413-, 4-nitrophenol 2-hydroxylase, 11413n7, CYP11E1, Cytochrome P450-J, Cytochrome P450 2E1, N-terminally processed, CYP2E1, CYP2E

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Cytochrome P450 2E1 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: [10553002](http://www.uniprot.org/citations/10553002), PubMed: [18577768](http://www.uniprot.org/citations/18577768)). 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: [10553002](http://www.uniprot.org/citations/10553002), PubMed: [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}

Cytochrome P450 2E1 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](#)

Cytochrome P450 2E1 Antibody - Images

Cytochrome P450 2E1 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.

Cytochrome P450 2E1 Antibody - References

Song B.-J., et al. J. Biol. Chem. 261:16689-16697(1986).
Umeno M., et al. Biochemistry 27:9006-9013(1988).
Zhuge J., et al. Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
Deloukas P., et al. Nature 429:375-381(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.