

CYP2E1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21764c

Specification

CYP2E1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P05181
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	56849

CYP2E1 Antibody (Center) - 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

Target/Specificity

This CYP2E1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 166-198 amino acids from the Central region of human CYP2E1.

Dilution

WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

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

CYP2E1 Antibody (Center) - 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](#), PubMed:[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](#), PubMed:[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](#), PubMed:[18577768](#)). May be involved in the oxidative metabolism of xenobiotics (Probable).

Cellular Location

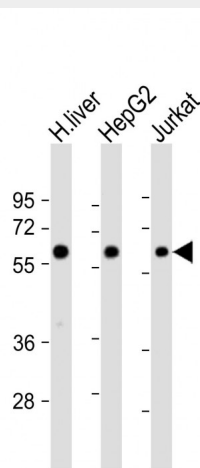
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P05182}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05182}. Microsome membrane {ECO:0000250|UniProtKB:P05182}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05182}. Mitochondrion inner membrane {ECO:0000250|UniProtKB:P05182}; Peripheral 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 (Center) - Protocols

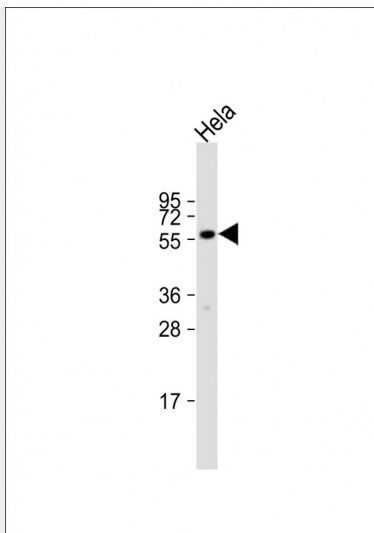
Provided below are standard protocols that you may find useful for product applications.

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

CYP2E1 Antibody (Center) - Images



All lanes : Anti-CYP2E1 Antibody (Center) at 1:4000 dilution Lane 1: human liver lysate Lane 2: HepG2 whole cell lysate Lane 3: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-CYP2E1 Antibody (Center) at 1:2000 dilution + HeLa whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

CYP2E1 Antibody (Center) - 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.

CYP2E1 Antibody (Center) - 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.