

Product datasheet for **TA346049**

Cytochrome P450 2E1 (CYP2E1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CYP2E1 antibody: synthetic peptide directed towards the C terminal of human CYP2E1. Synthetic peptide located within the following region: QEFDPDEKFKPEHFLNENGKFKYSDYFKPFSTGKRVCAGEGLARMELFLL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	54 kDa
Gene Name:	cytochrome P450 family 2 subfamily E member 1
Database Link:	NP_000764 Entrez Gene 1571 Human P05181



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Background:

CYP2E1 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer. This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer.

Synonyms:

CPE1; CYP2E; P450-J; P450C2E

Note:

Immunogen Sequence Homology: Human: 100%; Rabbit: 93%; Pig: 92%; Rat: 92%; Mouse: 92%; Guinea pig: 92%; Dog: 86%; Horse: 79%; Sheep: 79%; Bovine: 79%

Protein Families:

Druggable Genome, P450, Transmembrane

Protein Pathways:

Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450

Product images:


WB Suggested Anti-CYP2E1 Antibody Titration:
0.2-1 ug/ml; Positive Control: Human Liver