

Rabbit Cytochrome P450 2E1 Polyclonal Antibody | anti-CYP2E1 antibody

Anti-CYP2E1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46078	Rabbit	Human, Mouse, Rat. No cross reactivity with other proteins.	Immunohistochemistry, Western Blot

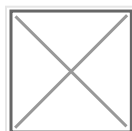
PRODUCT SYNONYMS

Cytochrome P450 2E1; Polyclonal Antibody; Anti-CYP2E1 Antibody; 4-nitrophenol 2-hydroxylase antibody; CP2E1_HUMAN antibody; CPE 1 antibody; CPE1 antibody; CYP2E antibody; CYP2E1 antibody; CYP1I1 antibody; Cytochrome P450 2E1 antibody; cytochrome P450 family 2 subfamily E polypeptide 1 antibody; Cytochrome P450 isozyme 3A antibody; Cytochrome P450 LM3A antibody; Cytochrome P450 subfamily IIE (ethanol inducible) polypeptide 1 antibody; Cytochrome P450; family 2; subfamily e; polypeptide 1 antibody; cytochrome P450; subfamily IIE (ethanol-inducible); subfamily IIE antibody; Cytochrome P450-ALC antibody; Cytochrome P450-J antibody; Cytochrome P450RLM6 antibody; EC 1.14.13.- antibody; EC 1.14.13.n7 antibody; Ethanol inducible p450 antibody; Ethanol-inducible P450 antibody; flavoprotein-linked monooxygenase antibody; MGC133529 antibody; microsomal monooxygenase antibody; OTTHUMP00000020813 antibody; OTTHUMP00000046571 antibody; P450 ALC antibody; P450 J antibody; P450-J antibody; P450C2E antibody; P450J antibody; P450RLM6 antibody; xenobiotic monooxygenase antibody; subfamily E; polypeptide 1; anti-CYP2E1 antibody

PRODUCT SPECIFICATIONS

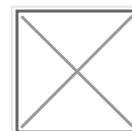
Host	Rabbit
Reactivity	Human, Mouse, Rat. No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	493
Applicable Applications for anti-CYP2E1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E.coli-derived human CYP2E1 recombinant protein (Position: M1-Y310). Human CYP2E1 shares 73% and 74% amino acid (aa) sequences identity with mouse and rat CYP2E1, respectively.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemisry)

Figure 3. IHC analysis of CYP2E1 using anti-CYP2E1 antibody (AAA46078). CYP2E1 was detected in paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CYP2E1 Antibody (AAA46078) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of CYP2E1 using anti-CYP2E1 antibody (AAA46078). CYP2E1 was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CYP2E1 Antibody (AAA46078) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CYP2E1 using anti-CYP2E1 antibody (AAA46078). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. lane 1: rat liver tissue lysate, lane 2: mouse liver tissue lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CYP2E1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CYP2E1 at approximately 55KD. The expected band size for CYP2E1 is at 57KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP2E1 antibody	Description: Rabbit IgG polyclonal antibody for Cytochrome P450 2E1(CYP2E1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Cytochrome P450 2E1 (abbreviated CYP2E1), a member of the cytochrome P450 mixed-function oxidase system, is involved in the metabolism of xenobiotics in the body. In humans, the CYP2E1 enzyme is encoded by the CYP2E1 gene. It is mapped to 10q26.3. While it is involved in the oxidative metabolism of a small range of substrates (mostly small polar molecules), there are many important drug interactions mediated by CYP2E1. Most drugs undergo deactivation by CYP2E1, either directly or by facilitated excretion from the body. Also, many substances are bioactivated by CYP2E1 to form their active compounds. In addition, CYP2E1 is an important enzyme for the conversion of ethanol to acetaldehyde and to acetate in humans. In the conversion sequence of acetyl-CoA to glucose, CYP2E1 transforms acetone via acetol into propylene glycol and methylglyoxal, the precursors of pyruvate, acetate and lactate.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10834998
NCBI GeneID	1571
NCBI Accession #	NP_000764.1
NCBI GenBank Nucleotide #	NM_000773.3
UniProt Accession #	P05181; Q5VZD5; Q6NWT9; Q9UK47
Molecular Weight	56,849 Da
NCBI Official Full Name	cytochrome P450 2E1
NCBI Official Synonym Full Names	cytochrome P450, family 2, subfamily E, polypeptide 1
NCBI Official Symbol	CYP2E1
NCBI Official Synonym Symbols	CPE1; CYP2E; P450-J; P450C2E
NCBI Protein Information	cytochrome P450 2E1; CYP11E1; cytochrome P450-J; microsomal monooxygenase; xenobiotic monooxygenase; 4-nitrophenol 2-hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIE (ethanol-inducible), polypeptide 1
UniProt Protein Name	Cytochrome P450 2E1
UniProt Gene Name	CYP2E1
UniProt Synonym Gene Names	CYP2E
UniProt Entry Name	CP2E1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cytochrome-p450-2e1-antibody-immunohistochemistry-western-blot-elisa/46078>