



**Polyclonal Anti-Cytochrome P450, family 2, subfamily E, polypeptide 1,
P450II E1(CYP2E1) (Sepharose Bead Conjugate)**

Catalogue No. PA1116-S

Lot No. 08J01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, rat, mouse. No cross reactivity with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide mapping at the C-terminal of human P450II E1, different from the related mouse sequence by single amino acid.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

P450II E1, also known as CYP2E1, is a member of the P450IIE subfamily which is ethanol-inducible. It has at least 1 gene which is mapped to 10q24.3-qter, and a second is likely in rat and in man¹. Both the rat and human proteins encoded by this gene contain 493 amino acids and calculated molecular masses of 56,634 and 56,916 daltons, respectively². In addition, genetic polymorphisms in the 5-prime flanking region of the human P450II E1 gene affected its binding of transacting factor and changed its transcriptional regulation, which may lead to interindividual differences of microsomal drug oxidation activity³. P450II E1 is an important enzyme for the catalysis of the conversion of ethanol to acetaldehyde and to acetate in humans, and it is also involved in the metabolism of nitrosamines. Due to the possible correlation of P450II E1 genes with malignancy, clinical studies of RFLP patterns of these genes in cancer may be useful.

REFERENCE

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- 2.Song, B.-J.; Gelboin, H. V.; Park, S.-S.; Yang, C. S.; Gonzalez, F. J. : Complementary DNA and protein sequences of ethanol-inducible rat and human cytochrome P-450s: transcriptional and post-transcriptional regulation of the rat enzyme. *J. Biol. Chem.* 261: 16689-16697, 1987.
- 3.Hayashi, S.; Watanabe, J.; Kawajiri, K. : Genetic polymorphisms in the 5-prime-flanking region change transcriptional regulation of the human cytochrome P450II E1 gene. *J. Biochem.* 110: 559-565, 1991.

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