

CYP2C8 Polyclonal Antibody

Catalog No: YT1212

Reactivity: Human

Applications: WB;ELISA

Target: CYP2C8

Fields: >>Arachidonic acid metabolism;>>Linoleic acid metabolism;>>Retinol

metabolism;>>Drug metabolism - cytochrome P450;>>Metabolic pathways;>>Serotonergic synapse;>>Chemical carcinogenesis - DNA

adducts;>>Lipid and atherosclerosis

Gene Name: CYP2C8

Protein Name: Cytochrome P450 2C8

P10632

Human Gene Id: 1558

Human Swiss Prot

No:

Immunogen: Synthesized peptide derived from the Internal region of human CYP2C8.

Specificity: CYP2C8 Polyclonal Antibody detects endogenous levels of CYP2C8 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

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Observed Band: 55kD

Cell Pathway: Arachidonic acid metabolism;Linoleic acid metabolism;Retinol

metabolism; Metabolism of xenobiotics by cytochrome P450; Drug metabolism;

Background: 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 its expression is induced by phenobarbital. The enzyme is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, benzo(a)pyrene, 7-ethyoxycoumarin, and the anti-cancer drug taxol. This gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. Several transcript variants encoding a few different isoforms have been found for this gene.

[provided by RefSeq, Nov 2010],

Function : catalytic activity:RH + reduced flavoprotein + O(2) = ROH + oxidized

flavoprotein + H(2)O.,caution:Alternative splicing has been shown to occur but the

shorter forms are believed to be non-functional.,cofactor:Heme group.,function:Cytochromes P450 are a group of heme-thiolate

monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. In the epoxidation of arachidonic acid it generates only 14,15- and 11,12-cis-epoxyeicosatrienoic acids. It is the principal enzyme responsible for the

metabolism the anti-cancer drug paclitaxel (taxol).,induction:By

phenobarbital., online information: CYP2C8 alleles, similarity: Belongs to the

cytochrome P450 family.,

Subcellular Location : Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome

membrane; Peripheral membrane protein.

Expression : Blood, Kidney, Liver,

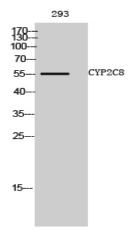
Sort: 4794

No4: 1

Host: Rabbit

Modifications: Unmodified

Products Images



Western Blot analysis of 293 cells using CYP2C8 Polyclonal Antibody diluted at 1:1000