

CYP2B6 Polyclonal Antibody

Catalog No: YT1208

Reactivity: Human

Applications: WB;ELISA

Target: CYP2B6

Fields: >>Arachidonic acid metabolism;>>Retinol metabolism;>>Metabolism of

xenobiotics by cytochrome P450;>>Drug metabolism - cytochrome P450;>>Metabolic pathways;>>Chemical carcinogenesis - receptor

activation;>>Lipid and atherosclerosis

Gene Name: CYP2B6

Protein Name: Cytochrome P450 2B6

P20813

Human Gene Id: 1565

Human Swiss Prot

No:

Immunogen: Synthesized peptide derived from the Internal region of human CYP2B6.

Specificity: CYP2B6 Polyclonal Antibody detects endogenous levels of CYP2B6 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: 1:40000. 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)

1/3

Observed Band: 55kD

Sort:

Cell Pathway: Arachidonic acid metabolism;Retinol metabolism;Metabolism of xenobiotics by

cytochrome P450;Drug metabolism;

Background: This gene, CYP2B6, 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 some xenobiotics, such as the anti-cancer drugs cyclophosphamide and ifosphamide. Transcript variants for this gene have been described; however, it has not been resolved whether these transcripts are in fact produced by this gene or by a closely related pseudogene, CYP2B7. Both the gene and the pseudogene are located in the middle of a CYP2A pseudogene found in a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on

chromosome 19q. [provided by RefSeq, Jul 2008],

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

flavoprotein + H(2)O.,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.,induction:By phenobarbital.,online information:CYP2B6 alleles,PTM:Phosphorylation is accompanied by a decrease in enzyme activity.,similarity:Belongs to the cytochrome P450 family.,tissue

specificity:Expressed in liver, lung and heart right ventricle.,

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

Expression : Expressed in liver, lung and heart right ventricle.

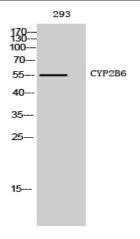
4791

No4: 1

Host: Rabbit

Modifications: Unmodified

Products Images



Western Blot analysis of 293 cells using CYP2B6 Polyclonal Antibody