Product Name: CYP2B6 Rabbit Polyclonal Antibody
Catalog #: APRab09650

Summary

Production Name	CYP2B6 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CYP2B6
Alternative Names	CYP2B6; Cytochrome P450 2B6; 1; 4-cineole 2-exo-monooxygenase; CYPIIB6; Cytochrome P450 IIB1
Gene ID	1565.0
SwissProt ID	P20813.Synthesized peptide derived from the Internal region of human CYP2B6.

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:40000.
Molecular Weight	55kD

Background

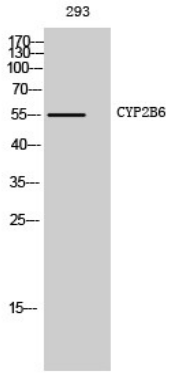
This gene, CYP2B6, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are

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],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.,

Research Area

Arachidonic acid metabolism;Retinol metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;

Image Data



Western Blot analysis of 293 cells using CYP2B6 Polyclonal Antibody

Note

For research use only.