



CYP2B6 Monoclonal Antibody

Catalog No	YP-mAb-02581
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CYP2B6
Immunogen	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 2B6. AA range:241-290
Specificity	CYP2B6 Monoclonal Antibody detects endogenous levels of CYP2B6 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CYP2B6;Cytochrome P450 2B6;1;4-cineole 2-exo-monooxygenase;CYPIIB6;Cytochrome P450 IIB1
Observed Band	56kD
Calculated Molecular Weight	56kD
Cell Pathway	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein.
Tissue Specificity	Expressed in liver, lung and heart right ventricle.
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.,



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 ifosfamide. 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],

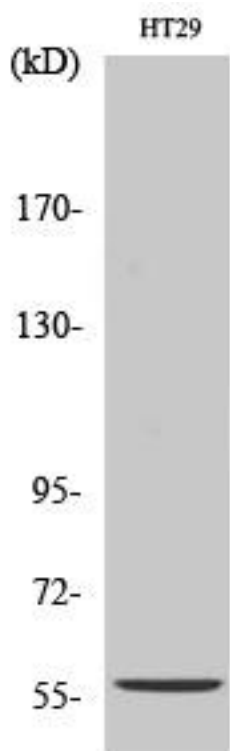
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CYP2B6 Monoclonal Antibody