

CP3A5 Polyclonal Antibody

Catalog No :	YN0181
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	CP3A5
Fields :	>>Steroid hormone biosynthesis;>>Retinol metabolism;>>Metabolism of xenobiotics by cytochrome P450;>>Drug metabolism - cytochrome P450;>>Metabolic pathways;>>Chemical carcinogenesis - DNA adducts
Gene Name :	CYP3A5
Protein Name :	Cytochrome P450 3A5 (EC 1.14.14.1) (CYP3A5) (Cytochrome P450 HLp2) (Cytochrome P450-PCN3)
Human Gene Id :	1577
Human Swiss Prot No :	P20815
Immunogen :	Synthesized peptide derived from human protein . at AA range: 200-280
Specificity :	CP3A5 Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
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)

Observed Band :	55kD
Cell Pathway :	Steroid hormone biosynthesis;Linoleic acid metabolism;Retinol metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;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. The encoded protein metabolizes drugs as well as the steroid hormones testosterone and progesterone. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Two pseudogenes of this gene have been identified within this cluster on chromosome 7. Expression of this gene is widely variable among populations, and a single nucleotide polymorphism that affects transcript splicing has been associated with susceptibility to hypertension. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014],
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:P450 can be induced to high levels in liver and other tissues by various foreign compounds, including drugs, pesticides, and carcinogens.,online information:CYP3A5 alleles,similarity:Belongs to the cytochrome P450 family.,
Subcellular Location :	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein.
Expression :	Colon,Human esophagus tumor,Human small intestine,Liver,
Sort :	18593
No4 :	1

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