Best Tools for immunology Research

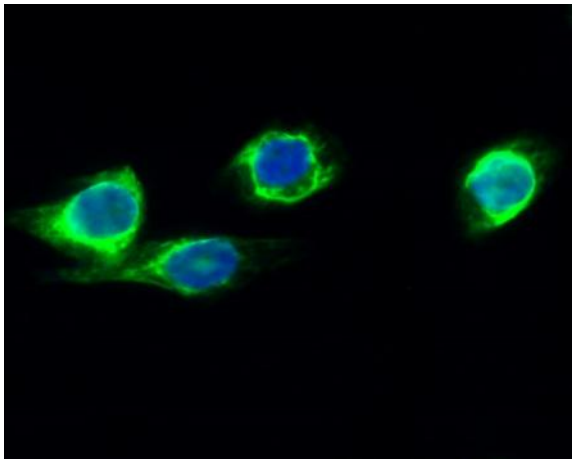
CYP2E1 Polyclonal Antibody

Catalog No :	YT1220
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	CYP2E1
Fields :	>>Steroid hormone biosynthesis;>>Arachidonic acid metabolism;>>Linoleic acid metabolism;>>Metabolism of xenobiotics by cytochrome P450;>>Drug metabolism - cytochrome P450;>>Drug metabolism - other enzymes;>>Metabolic pathways;>>Non-alcoholic fatty liver disease;>>Alcoholic liver disease;>>Chemical carcinogenesis - DNA adducts;>>Chemical carcinogenesis - reactive oxygen species
Gene Name :	CYP2E1
Protein Name :	Cytochrome P450 2E1
Human Gene Id :	1571
Human Swiss Prot No :	P05181
Mouse Gene Id :	13106
Mouse Swiss Prot No :	Q05421
Rat Gene Id :	25086
Rat Swiss Prot No :	P05182
Immunogen :	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 2E1. AA range:371-420
Specificity :	CYP2E1 Polyclonal Antibody detects endogenous levels of CYP2E1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

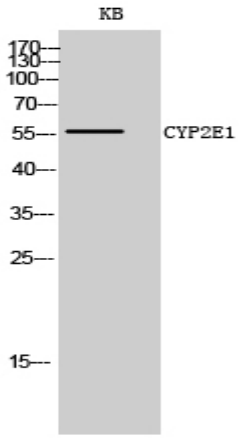
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	56kD
Cell Pathway :	Arachidonic acid metabolism;Linoleic acid 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 is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:4-nitrophenol + NADPH + O(2) = 4-nitrocatechol + NADP(+) + H(2)O.,cofactor:Heme group.,function:Metabolizes several precarcinogens, drugs, and solvents to reactive metabolites. Inactivates a number of drugs and xenobiotics and also bioactivates many xenobiotic substrates to their hepatotoxic or carcinogenic forms.,induction:By ethanol and isoniazid.,online information:CYP2E1 alleles,online information:CYP2E1 entry,similarity:Belongs to the cytochrome P450 family.,
Subcellular Location :	Endoplasmic reticulum membrane ; Peripheral membrane protein . Microsome membrane ; Peripheral membrane protein . Mitochondrion inner membrane ; Peripheral membrane protein . Post-translationally targeted to mitochondria. TOMM70 is required for the translocation across the mitochondrial outer membrane. After translocation into the matrix, associates with the inner membrane as a membrane extrinsic protein. .
Expression :	Brain,Liver,Lung,PCR rescued clones,

Tag :	orthogonal
Sort :	796
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

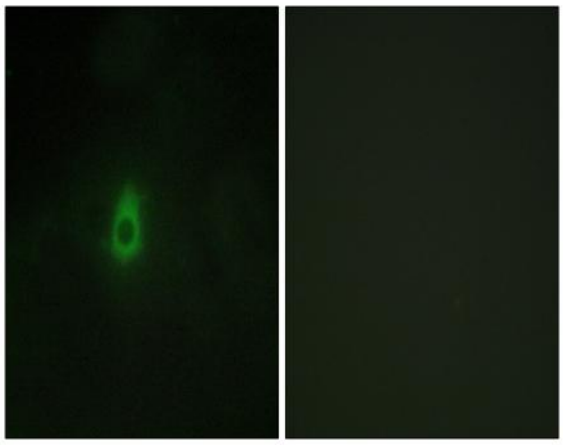
Products Images



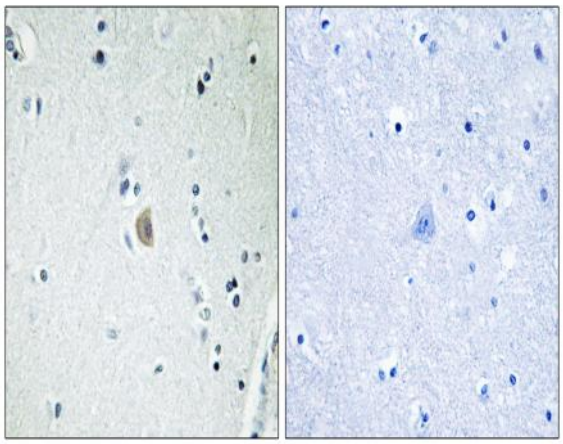
Immunofluorescence analysis of Hela cell. 1,CYP2E1 Polyclonal Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.



Western Blot analysis of KB cells using CYP2E1 Polyclonal Antibody diluted at 1:500



Immunofluorescence analysis of HepG2 cells, using Cytochrome P450 2E1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Cytochrome P450 2E1 Antibody. The picture on the right is blocked with the synthesized peptide.