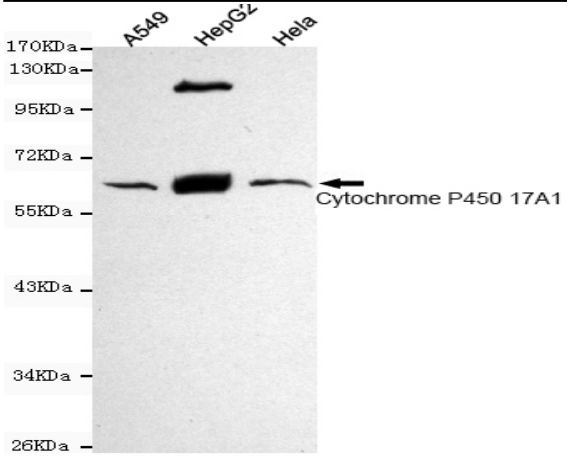
Best Tools for immunology Research

Cytochrome P450 17A1 mouse mAb

Catalog No :	YM1339
Reactivity :	Human
Applications :	WB
Target :	CYP17A1
Fields :	>>Steroid hormone biosynthesis;>>Metabolic pathways;>>Ovarian steroidogenesis;>>Prolactin signaling pathway;>>Cortisol synthesis and secretion;>>Cushing syndrome
Gene Name :	cyp17a1
Human Gene Id :	1586
Human Swiss Prot No :	P05093
Mouse Swiss Prot No :	P27786
Immunogen :	Purified recombinant human Cytochrome P450 17A1 protein fragments expressed in E.coli.
Specificity :	This antibody detects endogenous levels of Cytochrome P450 17A1 and does not cross-react with related proteins.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	wb 1:1000
Purification :	The antibody was affinity-purified from mouse ascites 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 :	60kD
Cell Pathway :	Steroid hormone biosynthesis;
Background :	cytochrome P450 family 17 subfamily A member 1(CYP17A1) Homo sapiens 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. It has both 17alpha-hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17 alpha-hydroxylase deficiency, 17-alpha-hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:A steroid + AH(2) + O(2) = a 17-alpha-hydroxysteroid + A + H(2)O.,cofactor:Heme group.,disease:Defects in CYP17A1 are the cause of adrenal hyperplasia type 5 (AH5) [MIM:202110]. AH5 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: "salt wasting" (SW, the most severe type), "simple virilizing" (SV, less severely affected patients), with normal aldosterone biosynthesis, "non-classic form" or late onset (NC or LOAH), and "cryptic" (asymptomatic).,enzyme regulation:Regulated predominantly by intracellular cAMP levels.,function:Conversion of pregnenolone and p
Subcellular Location :	Endoplasmic reticulum membrane . Microsome membrane .
Expression :	Brain,Corpus callosum,
Sort :	4854
No4 :	1
Host :	Mouse
Modifications :	Unmodified

Products Images



Western blot detection of Cytochrome P450 17A1 in Hela,HepG2 and A549 cell lysates using Cytochrome P450 17A1 mouse mAb (1:1000 diluted).Predicted band size:60KDa.Observed band size:60KDa.