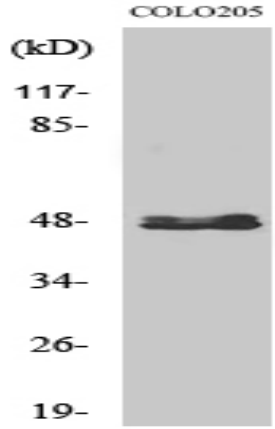
Best Tools for immunology Research

CYP11B1/2 Polyclonal Antibody

Catalog No :	YT1188
Reactivity :	Human
Applications :	WB;ELISA
Target :	CYP11B1/2
Fields :	>>Steroid hormone biosynthesis;>>Metabolic pathways;>>Cortisol synthesis and secretion;>>Cushing syndrome
Gene Name :	CYP11B1/CYP11B2
Protein Name :	Cytochrome P450 11B1 mitochondrial/Cytochrome P450 11B2 mitochondrial
Human Gene Id :	1584/1585
Human Swiss Prot No :	P15538/P19099
Immunogen :	Synthesized peptide derived from the C-terminal region of human CYP11B1/2.
Specificity :	CYP11B1/2 Polyclonal Antibody detects endogenous levels of CYP11B1/2 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. ELISA: 1:40000. 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 :	57kD

Cell Pathway :	Steroid hormone biosynthesis;Androgen and estrogen metabolism;
Background :	cytochrome P450 family 11 subfamily B member 1(CYP11B1) 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 mitochondrial inner membrane and is involved in the conversion of progesterone to cortisol in the adrenal cortex. Mutations in this gene cause congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency. Transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:A steroid + reduced adrenal ferredoxin + O(2) = an 11-beta-hydroxysteroid + oxidized adrenal ferredoxin + H(2)O.,cofactor:Heme group.,disease:An anti-Lepore-type fusion of the CYP11B1 and CYP11B2 genes is a cause of glucocorticoid-remediable aldosteronism (GRA) [MIM:103900].,disease:Defects in CYP11B1 are the cause of adrenal hyperplasia type 4 (AH4) [MIM:202010]. AH4 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, "
Subcellular Location :	Mitochondrion inner membrane ; Peripheral membrane protein .
Expression :	Adrenal gland,PCR rescued clones,Peripheral blood,
Sort :	4769
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Western Blot analysis of various cells using CYP11B1/2 Polyclonal Antibody