C11B2 Polyclonal Antibody

Catalog No	YP-Ab-06596
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	CYP11B2
Immunogen	Synthesized peptide derived from human protein . at AA range: 280-360
Specificity	C11B2 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CYP11BL;CYP11B;CPN2;Corticosterone 18-monooxygenase;CYP11B2; Aldosterone-synthesizing enzyme;C11B2;Cytochrome P450 11B2;mitochondrial (Aldosterone synthase) (ALDOS) (EC 1.14.15.4) (EC 1.14.15.5) (Aldosterone-synthesizing enzyme) (CYPXIB2) (Cytochrome P-450Aldo) (Cytochrome P-450C18) (Steroid 18-hy
Observed Band	48-50 kDa
Calculated Molecular Weight	58 kDa
Cell Pathway	Mitochondrion inner membrane ; Peripheral membrane protein .
Tissue Specificity	Adrenal gland,Blood,
Function	catalytic activity:A steroid + reduced adrenal ferredoxin + O(2) = an 11-beta-hydroxysteroid + oxidized adrenal ferredoxin + H(2)O.,catalytic activity:Corticosterone + reduced adrenal ferredoxin + O(2) = 18-hydroxycorticosterone + oxidized adrenal ferredoxin + H(2)O.,cofactor:Heme group.,disease:An anti-Lepore-type fusion of the CYP11B2 and CYP11B1 genes is a cause of glucocorticoid-remediable aldosteronism (GRA) [MIM:103900]., disease:Defects in CYP11B2 are the cause of corticosterone methyloxidase type 1 deficiency (CMO-1 deficiency) [MIM:203400]; also called aldosterone deficiency due to defect in 18-hydroxylase or aldosterone deficiency I. CMO-1

	deficiency is an autosomal recessive disorder of aldosterone biosynthesis. There are two biochemically different forms of selective aldosterone deficiency be termed corticosterone methyloxidase (CMO) deficiency type 1 and type 2. In CMO-1 defi
Background	cytochrome P450 family 11 subfamily B member 2(CYP11B2) 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. The enzyme has steroid 18-hydroxylase activity to synthesize aldosterone and 18-oxocortisol as well as steroid 11 beta-hydroxylase activity. Mutations in this gene cause corticosterone methyl oxidase deficiency. [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.

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