C11B2 Rabbit pAb

CatalogNo: YN1729

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 55kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human protein . at AA range: 280-360
Specificity	C11B2 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	CYP11B2

Protein Name Cytochrome P450 11B2, mitochondrial (Aldosterone synthase) (ALDOS) (Aldosterone-synthesizing enzyme) (CYPXIB2) (Cytochrome P-450Aldo) (Cytochrome P-450C18) (Steroid 18-hydroxylase)

Organism	Gene ID	UniProt ID
Human	1585;	P19099;
Mouse		P15539;
Rat		P30099;

Cellular Localization 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 deficiency, aldosterone is undetectable in plasma, while its immediate precursor, 18-hydroxycorticosterone, is low or normal.,Disease:Defects in CYP11B2 are the cause of corticosterone methyloxidase type 2 deficiency (CMO-2 deficiency) [MIM:610600]. CMO-2 is an autosomal recessive disorder of aldosterone biosynthesis. In CMO-2 deficiency, aldosterone can be low or normal, but at the expense of increased secretion of 18-hydroxycorticosterone. Consequently, patients have a greatly increased ratio of 18-hydroxycorticosterone to aldosterone and a low ratio of corticosterone to 18-hydroxycorticosterone in serum.,Function:Preferentially catalyzes the conversion of 11-deoxycorticosterone to aldosterone via corticosterone and 18-hydroxycorticosterone.,online information:CYP11B2 entry,similarity:Belongs to the cytochrome P450 family.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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