CYP21A2 Rabbit pAb

CatalogNo: YT1195

Key Features

Host Species
- Rabbit

Reactivity
- Human

Applications
- WB,IHC,IF,ELISA

MW
- 55kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:20000
Not yet tested in other applications.

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	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 21A2. AA range:151-200
Specificity	CYP21A2 Polyclonal Antibody detects endogenous levels of CYP21A2 protein.

Target Information

Gene name CYP21A2

Protein Name Steroid 21-hydroxylase

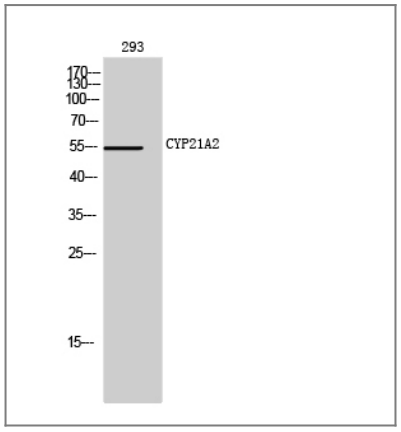
Organism	Gene ID	UniProt ID
Human	1589;	P08686;
Mouse		P03940;

Cellular Localization Endoplasmic reticulum membrane; Peripheral membrane protein . Microsome membrane ; Peripheral membrane protein .

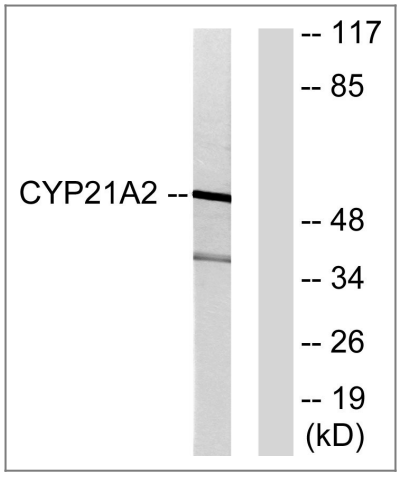
Tissue specificity Adrenal gland,PCR rescued clones,Peripheral blood,

Function Catalytic activity:A steroid + AH(2) + O(2) = a 21-hydroxysteroid + A + H(2)O.,cofactor:Heme group.,Disease:Defects in CYP21A2 are the cause of adrenal hyperplasia type 3 (AH3) [MIM:201910]. AH3 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).,Domain:The leucine-rich hydrophobic amino acid N-terminal region probably helps to anchor the protein to the microsomal membrane.,Function:Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids.,miscellaneous:The human genome contains 2 genes, C4A and C4B, for C4 complement component separated by approximately 10 kb. 3'to each of the C4 genes there is a steroid 21-hydroxylase gene. The gene 3'to C4A is a pseudogene.,online information:CYP21A2 alleles,online information:The Singapore human mutation and polymorphism database,similarity:Belongs to the cytochrome P450 family.,

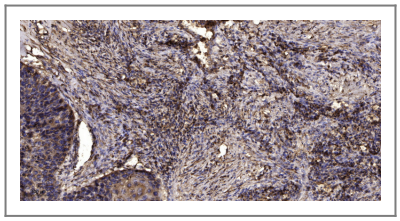
Validation Data



Western Blot analysis of 293 cells using CYP21A2 Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from 293 cells, using Cytochrome P450 21A2 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

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Please scan the QR code to access additional product information: **CYP21A2 Rabbit pAb**