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CYP21A2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17032C

Specification

CYP21A2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P08686
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**56001**
Antigen Region	**160-188**

CYP21A2 Antibody (Center) - Additional Information

Gene ID 1589

Other Names
Steroid 21-hydroxylase, 21-OHase, Cytochrome P-450c21, Cytochrome P450 21, Cytochrome P450 XXI, Cytochrome P450-C21, Cytochrome P450-C21B, CYP21A2, CYP21, CYP21B

Target/Specificity
This CYP21A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-188 amino acids from the Central region of human CYP21A2.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CYP21A2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CYP21A2 Antibody (Center) - Protein Information

Name CYP21A2

Synonyms CYP21, CYP21B

Function A cytochrome P450 monooxygenase that plays a major role in adrenal steroidogenesis. Catalyzes the hydroxylation at C-21 of progesterone and 17alpha-hydroxyprogesterone to respectively form 11- deoxycorticosterone and 11-deoxycortisol, intermediate metabolites in the biosynthetic pathway of mineralocorticoids and glucocorticoids (PubMed:25855791, PubMed:10602386, PubMed:16984992, PubMed:22014889, PubMed:27721825). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:25855791).

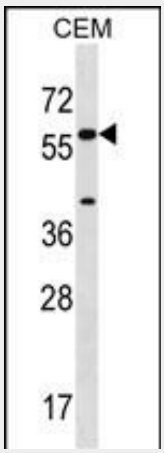
Cellular Location
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

CYP21A2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CYP21A2 Antibody (Center) - Images



CYP21A2 Antibody (Center) (Cat. #AP17032c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the CYP21A2 antibody detected the CYP21A2 protein (arrow).

CYP21A2 Antibody (Center) - Background

Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids.