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# Datasheet for ABIN2788351 anti-CYP21A2 antibody (C-Term)

3 Images



### Overview

Quantity:	100 μL
Target:	CYP21A2
Binding Specificity:	C-Term
Reactivity:	Human, Cow, Dog, Guinea Pig, Pig, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP21A2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human CYP21A2
Sequence:	IQQRLQEELD HELGPGASSS RVPYKDRARL PLLNATIAEV LRLRPVVPLA
Predicted Reactivity:	Cow: 92%, Dog: 92%, Guinea Pig: 80%, Human: 100%, Pig: 92%, Sheep: 92%
Characteristics:	This is a rabbit polyclonal antibody against CYP21A2. It was validated on Western Blot.
Purification:	Affinity Purified

## Target Details

Target:	CYP21A2
Alternative Name:	CYP21A2 (CYP21A2 Products)

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# Target Details

Background:	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 endoplasmic reticulum and hydroxylates steroids at the 21 position. Its activity is
	required for the synthesis of steroid hormones including cortisol and aldosterone. Mutations in
	this gene cause congenital adrenal hyperplasia. A related pseudogene is located near this gene,
	gene conversion events involving the functional gene and the pseudogene are thought to
	account for many cases of steroid 21-hydroxylase deficiency. Two transcript variants encoding
	different isoforms have been found for this gene.
	Alias Symbols: CA21H, CAH1, CPS1, CYP21, CYP21B, MGC150536, MGC150537, P450c21B
	Protein Size: 495
Molecular Weight:	56 kDa
Gene ID:	1589
NCBI Accession:	NM_000500, NP_000491
UniProt:	Q16874
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Steroid Hormone Biosynthesis, C21-Steroid
	Hormone Metabolic Process

# Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
Comment:	Antigen size: 495 AA	
Restrictions:	For Research Use only	

# Handling

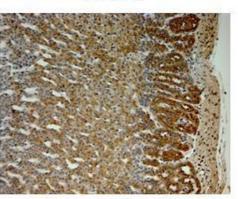
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

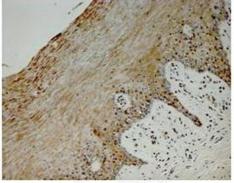
Images



CYP21A2

Brown: CYP21A2 Blue: Nucleus

### CYP21A2



Brown: CYP21A2 Blue: Nucleus

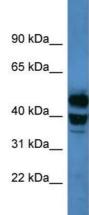
### Immunohistochemistry

**Image 1.** Sample Type : Monkey adrenal gland Primary Antibody Dilution : 1:25 Secondary Antibody: Anti-rabbit-HRP Secondary Antibody Dilution: 1:1000 Color/Signal Descriptions: Brown: CYP21A2 Blue: Nucleus Gene Name: CYP21A2 Submitted by: Jonathan Bertin, Endoceutics Inc.

### Immunohistochemistry

Image 2. Sample Type : Monkey vagina Primary AntibodyDilution : 1:25 Secondary Antibody: Anti-rabbit-HRPSecondary Antibody Dilution: 1:1000 Color/SignalDescriptions: Brown: CYP21A2 Blue: Nucleus Gene Name:CYP21A2 Submitted by: Jonathan Bertin, Endoceutics Inc.

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### Western Blotting

**Image 3.** WB Suggested Anti-CYP21A2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Human Muscle

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