

Datasheet for ABIN4886555  
**anti-CYP17A1 antibody (C-Term)**

## 2 Images

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## Overview

Quantity:	100 µg
Target:	CYP17A1
Binding Specificity:	AA 383-419, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Steroid 17-alpha-hydroxylase/17,20 lyase(CYP17A1) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human CYP17A1 (383-419aa EFAVDKGTVEIINLWALHHNEKEWHQPDQFMPERFLN), different from the related mouse and rat sequences by ten amino acids.
Sequence:	EFAVDKGTVEIINLWALHHN EKEWHQPDQF MPERFLN
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Steroid 17-alpha-hydroxylase/17,20 lyase(CYP17A1) detection. Tested with WB, IHC-P in Human.</p> <p>Gene Name: cytochrome P450 family 17 subfamily A member 1</p> <p>Protein Name: Steroid 17-alpha-hydroxylase/17,20 lyase</p>

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: CYP17A1

Alternative Name: CYP17A1 ([CYP17A1 Products](#))

Background: Cytochrome P450 17A1, also called steroid 17 $\alpha$ -monooxygenase, is an enzyme of the hydroxylase type that in humans is encoded by the CYP17A1 gene on chromosome 10. 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. It has both 17 $\alpha$ -hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17  $\alpha$ -hydroxylase deficiency, 17 $\alpha$ -hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia.

Synonyms: 20 lyase | CPT7 | CYP17 | CYP17A1 | CYPXVII | P450 C17 | P450c17 | S17AH | P05093

Gene ID: 1586

UniProt: [P05093](#)

Pathways: [Metabolism of Steroid Hormones and Vitamin D](#), [Steroid Hormone Biosynthesis](#), [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [C21-Steroid Hormone Metabolic Process](#), [Cellular Response to Molecule of Bacterial Origin](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5  $\mu$ g/mL, Tested Species: Human  
IHC-P: Concentration: 0.5-1  $\mu$ g/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

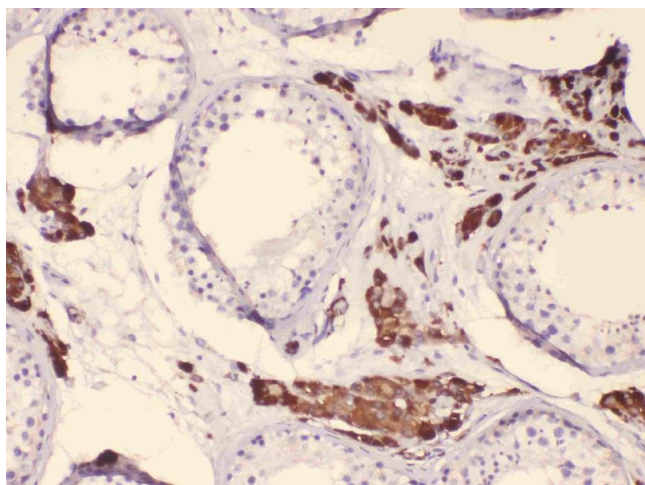
## Application Details

Restrictions: For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images



### Immunohistochemistry

**Image 1.** CYP17A1 was detected in paraffin-embedded sections of human testis tissues using rabbit anti- CYP17A1 Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



#### Western Blotting

**Image 2.** Western blot analysis of CYP17A1 expression in 22RV1 whole cell lysates ( Lane 1). CYP17A1 at 57KD was detected using rabbit anti- CYP17A1 Antigen Affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).