

Product datasheet

Anti-Cytochrome P450 17A1/CYP17A1 antibody ab231794

[2 References](#) [4 Images](#)

Overview

Product name	Anti-Cytochrome P450 17A1/CYP17A1 antibody
Description	Rabbit polyclonal to Cytochrome P450 17A1/CYP17A1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant fragment (His-T7-tag) corresponding to Rat Cytochrome P450 17A1/CYP17A1 aa 200 to the C-terminus. (Expressed in E.coli) Database link: P11715 Run BLAST with Run BLAST with
Positive control	IHC-P: Rat testis and adrenal gland tissue. WB: Recombinant rat Cytochrome P450 17A1/CYP17A1 protein; Rat testis and A549 cell lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS
Purity	Immunogen affinity purified
Purification notes	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab231794 in the following tested applications.

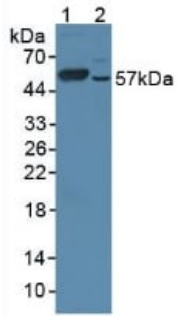
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

Function	Conversion of pregnenolone and progesterone to their 17-alpha-hydroxylated products and subsequently to dehydroepiandrosterone (DHEA) and androstenedione. Catalyzes both the 17-alpha-hydroxylation and the 17,20-lyase reaction. Involved in sexual development during fetal life and at puberty.
Pathway	Lipid metabolism; steroid biosynthesis.
Involvement in disease	Defects in CYP17A1 are the cause of adrenal hyperplasia type 5 (AH5) [MIM:202110]. AH5 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).
Sequence similarities	Belongs to the cytochrome P450 family.
Post-translational modifications	Phosphorylation is necessary for 17,20-lyase, but not for 17-alpha-hydroxylase activity.
Cellular localization	Membrane.

Images



Western blot - Anti-Cytochrome P450 17A1/CYP17A1 antibody (ab231794)

All lanes : Anti-Cytochrome P450 17A1/CYP17A1 antibody (ab231794) at 1 µg/ml

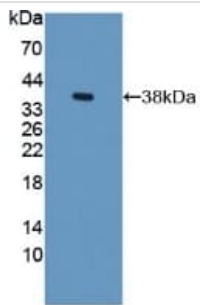
Lane 1 : Rat testis tissue lysate

Lane 2 : A549 (human lung carcinoma cell line) cell lysate

Secondary

All lanes : HRP-Linked Guinea pig Anti-Rabbit Ab at 1/2000 dilution

Developed using the ECL technique.



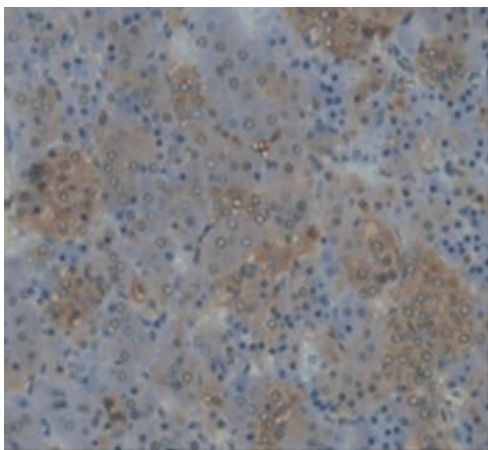
Western blot - Anti-Cytochrome P450 17A1/CYP17A1 antibody (ab231794)

Anti-Cytochrome P450 17A1/CYP17A1 antibody (ab231794) at 1 µg/ml + Recombinant rat Cytochrome P450 17A1/CYP17A1 protein

Secondary

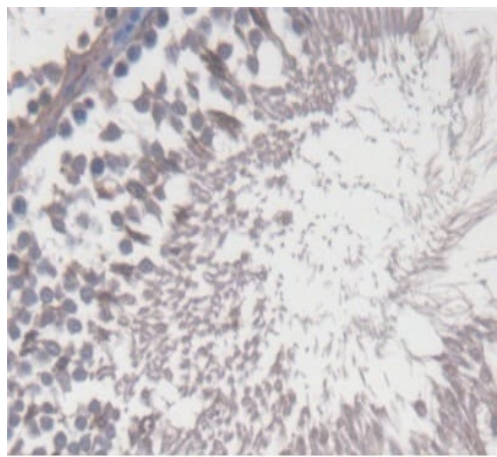
HRP-Linked Guinea pig Anti-Rabbit Ab at 1/2000 dilution

Developed using the ECL technique.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome P450 17A1/CYP17A1 antibody (ab231794)

Formalin-fixed, paraffin-embedded rat adrenal gland tissue stained for Cytochrome P450 17A1/CYP17A1 using ab231794 at 20µg/mL in immunohistochemical analysis. DAB-staining.



Formalin-fixed, paraffin-embedded rat testis tissue stained for Cytochrome P450 17A1/CYP17A1 using ab231794 at 20µg/mL in immunohistochemical analysis. DAB-staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome P450 17A1/CYP17A1 antibody (ab231794)

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