

Datasheet for ABIN6654117

anti-CYP17A1 antibody (AA 80-363)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	CYP17A1
Binding Specificity:	AA 80-363
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP17A1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Mouse Cyp17a1 recombinant protein (amino acids Q80-R363) was used as the immunogen for the Cyp17a1 antibody.
Isotype:	IgG
Purification:	Antigen 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

Target Details

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 α -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 α -hydroxylase deficiency, 17- α -hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia.

UniProt:	P27786
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

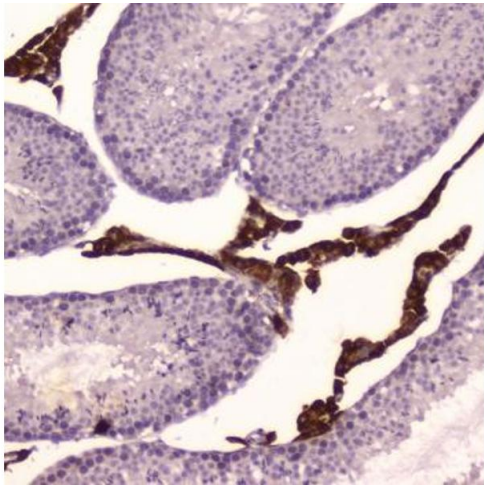
Application Details

Application Notes:	Optimal dilution of the Cyp17a1 antibody should be determined by the researcher.\. Western blot: 0.5-1 μ g/mL,Immunohistochemistry (FFPE): 1-2 μ g/mL,Direct ELISA: 0.1-0.5 μ g/mL (recombinant mouse protein)
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Restrictions:	For Research Use only
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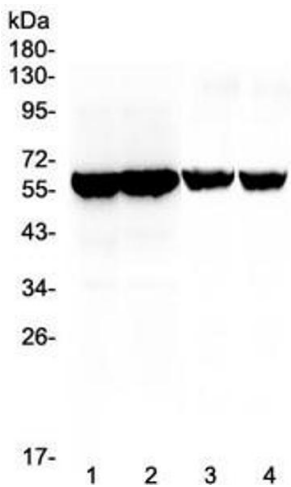
Handling

Buffer:	0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
Storage:	-20 $^{\circ}$ C
Storage Comment:	After reconstitution, the Cyp17a1 antibody can be stored for up to one month at 4 $^{\circ}$ C. For long-term, aliquot and store at -20 $^{\circ}$ C. Avoid repeated freezing and thawing.



Immunohistochemistry

Image 1. IHC testing of FFPE mouse testis tissue with Cyp17a1 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Western Blotting

Image 2. Western blot testing of different lots of mouse testis lysate (lanes 1, 2) and rat testis lysate (lanes 3, 4) with Cyp17a1 antibody at 0.5ug/ml. Predicted molecular weight ~57 kDa.