DATASHEET

CYP17A1 Rabbit Monoclonal Antibody(ARA6379)

CAT. NO. ARA6379

KEY FEATURES

Target:	CYP17A1	**Clone ID:**	ARA6379
Source/Host:	Rabbit	**Reactivity:**	Human
Clonality:	Monoclonal	**Applications:**	IHC
Storage:	at-20°C		

BACKGROUND

Cytochrome P450 17A1 (steroid 17α-monooxygenase, 17α-hydroxylase, 17-alpha-hydroxylase, 17,20-lyase, 17,20-desmolase) is an enzyme of the hydroxylase type that in humans is encoded by the CYP17A1 gene on chromosome 10. It is ubiquitously expressed in many tissues and cell types, including the zona reticularis and zona fasciculata of the adrenal cortex as well as gonadal tissues. CYP17A1 is a member of the cytochrome P450 superfamily of enzymes localized in the endoplasmic reticulum. Proteins in this family are monooxygenases that catalyze synthesis of cholesterol, steroids and other lipids and are involved in drug metabolism. CYP17A1 has both 17α-hydroxylase activity (EC 1.14.14.19) and 17,20-lyase activity (EC 1.14.14.32). The 17α-hydroxylase activity of CYP17A1 is required for the generation of glucocorticoids such as cortisol, but both the hydroxylase and 17,20-lyase activities of CYP17A1 are required for the production of androgenic and oestrogenic sex steroids by converting 17α-hydroxypregnenolone to dehydroepiandrosterone (DHEA).

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IHC	1:500-1:1000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Recombinant rabbit monoclonal antibody to CYP17A1
Antibody Type	Primary antibody,Recombinant
Immunogen	Recombinant protein within Human CYP17A1 aa 81-240 / 508.
Purification	Protein A affinity purified.
Molecular Weight	Predicted: 57 kDa; Observed: 50 kDa
Isotype	IgG
Form/Buffer	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Alternative Names	CYP17; CPT7; CYPXVII; Cytochrome P450 17A1; P450c17; S17AH; Steroid 17-alpha-hydroxylase/17,20 lyase
Gene Symbol	CYP17A1
Entrez Gene	1586(Human)
SwissProt	P05093(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

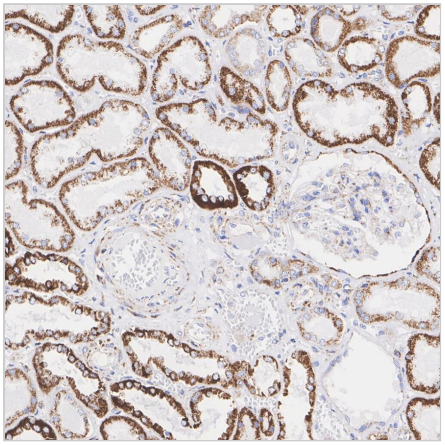
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA



Immunohistochemical analysis of paraffin-embedded human kidney tissue with CYP17A1 Rabbit Monoclonal Antibody(ARA6379).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com