

CYP17A1 Antibody (R32591)

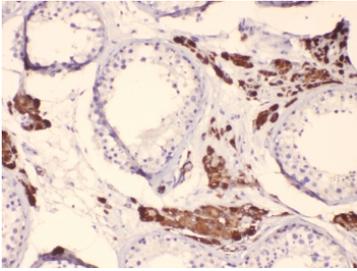
Catalog No.	Formulation	Size
R32591	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

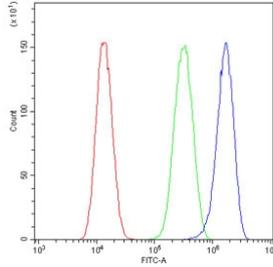
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P05093
Localization	Cytoplasmic, membranous
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells
Limitations	This CYP17A1 antibody is available for research use only.



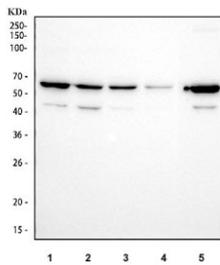
Western blot testing of 22RV1 cell lysate (prostate carcinoma) with CYP17A1 antibody at 0.5ug/ml. Predicted molecular weight ~57 kDa.



IHC testing of FFPE human testis tissue with CYP17A1 antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human U-87 MG cells with CYP17A1 antibody at $1\mu\text{g}/10^6$ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CYP17A1 antibody.



Western blot testing of 1) human SH-SY5Y, 2) human HepG2, 3) human HeLa, 4) human Jurkat and 5) rat testis tissue lysate with CYP17A1 antibody at $0.5\mu\text{g}/\text{ml}$. Predicted molecular weight ~ 57 kDa.

Description

Cytochrome P450 17A1, also called steroid 17α -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 17α -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- 17α -hydroxylase deficiency, 17α -hydroxylase/ $17,20$ -lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia.

Application Notes

Optimal dilution of the CYP17A1 antibody should be determined by the researcher.

Immunogen

Amino acids 383-419 (EFAVDKGTVEIINLWALHHNEKEWHQPQDFMPERFLN-human) were used as the immunogen for the CYP17A1 antibody.

Storage

After reconstitution, the CYP17A1 antibody can be stored for up to one month at 4°C . For long-term, aliquot and store at -20°C . Avoid repeated freezing and thawing.

