



CYP17A1 Rabbit mAb

Catalog No	YP-rAb-17012
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	CYP17A1
Protein Name	Steroid 17-alpha-hydroxylase/17,20 lyase
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	CYP17A1 ; CYP17 ; S17AH ; Steroid 17-alpha-hydroxylase/17 ; 20 lyase ; CYPXVII ; Cytochrome P450 17A1 ; Cytochrome P450-C17 ; Cytochrome P450c17 ; Steroid 17-alpha-monooxygenase
Observed Band	55kD
Calculated Molecular Weight	57kD
Cell Pathway	Endoplasmic reticulum membrane . Microsome membrane .
Tissue Specificity	Brain,Corpus callosum,
Function	Catalytic activity:A steroid + AH(2) + O(2) = a 17-alpha-hydroxysteroid + A + H(2)O.,cofactor:Heme group.,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).,enzyme regulation:Regulated predominantly by intracellular





cAMP levels.,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.,online information:The Singapore human mutation and polymorphism database,pathway:Lipid metabolism; steroid biosynthesis.,PTM:Phosphorylation is necessary for 17,20-lyase, but not for 17-alpha-hydroxylase activity.,similarity:Belongs to the cytochrome P450 family.,

Background

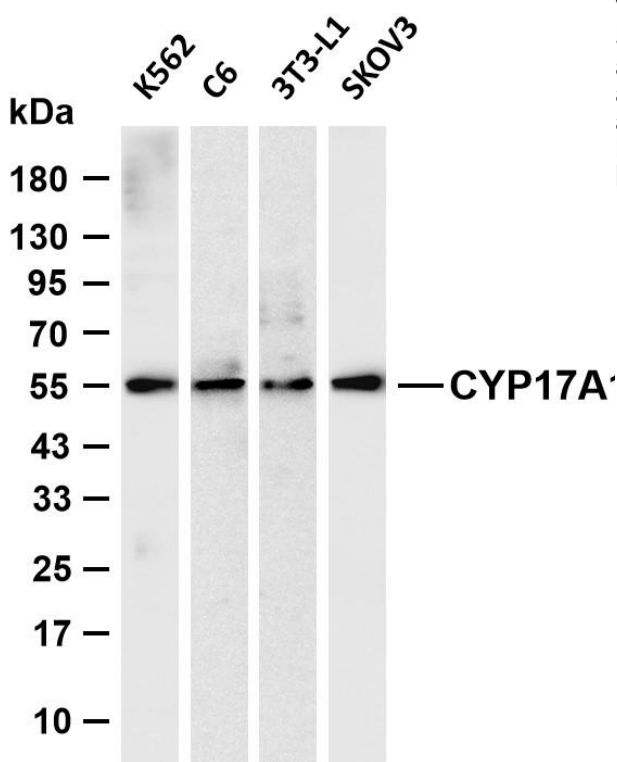
cytochrome P450 family 17 subfamily A member 1(CYP17A1) Homo sapiens This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum. It has both 17alpha-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. [provided by RefSeq, Jul 2008],

matters needing attention

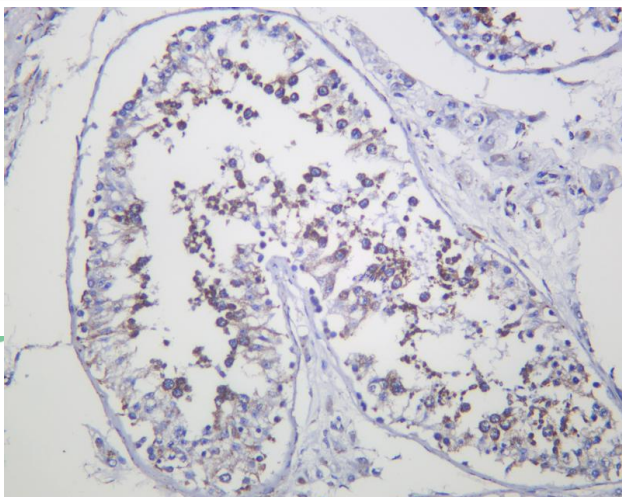
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

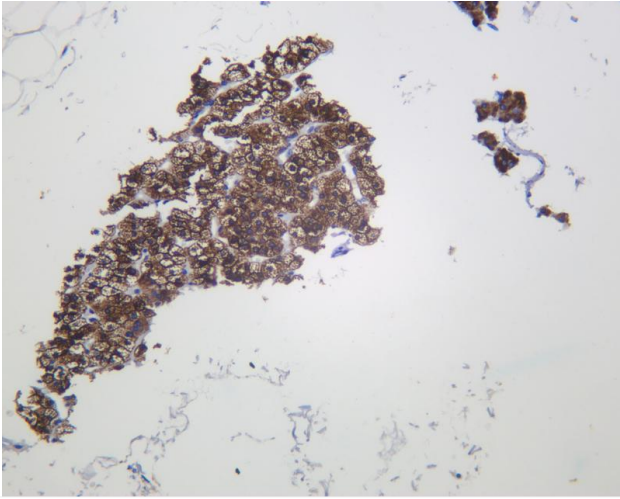


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CYP17A1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: C6 Lane 3: 3T3-L1 Lane 4: SKOV3 Predicted band size: 57kDa Observed band size: 55kDa

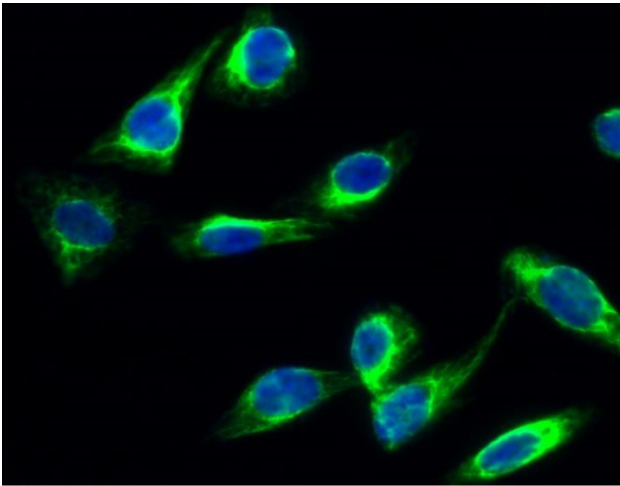


Human testis was stained with anti-CYP17A1 Rabbit antibody





Human adrenal gland was stained with anti-CYP17A1 Rabbit antibody



Immunofluorescence analysis of HeLa cell. 1, CYP17A1 Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.

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