

产品名称: CYP17A1 Rabbit Polyclonal Antibody
产品货号: APRab09627



产品概述 (Summary)

产品名称 (Production Name)	CYP17A1 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CYP17A1 CYP17A1; CYP17; S17AH; Steroid 17-alpha-hydroxylase/17; 20 lyase; CYPXVII;
别名 (Alternative Names)	Cytochrome P450 17A1; Cytochrome P450-C17; Cytochrome P450c17; Steroid 17-alpha-monooxygenase
基因 ID (Gene ID)	1586.0
蛋白 ID (SwissProt ID)	P05093.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 17A1. AA range:221-270

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	50kDa

产品名称: CYP17A1 Rabbit Polyclonal Antibody
产品货号: AP Rab09627



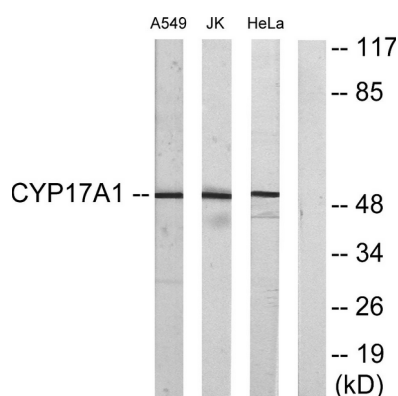
研究背景 (Background)

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 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. [provided by RefSeq, Jul 2008],catalytic activity:A steroid + AH(2) + O(2) = a 17- α -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- α -hydroxylated products and subsequently to dehydroepiandrosterone (DHEA) and androstenedione. Catalyzes both the 17- α -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- α -hydroxylase activity.,similarity:Belongs to the cytochrome P450 family.,

研究领域 (Research Area)

Steroid hormone biosynthesis;

图片 (Image Data)

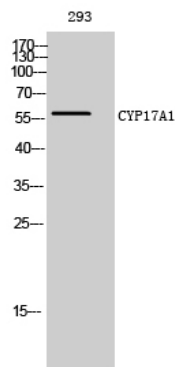


Western blot analysis of lysates from Jurkat, A549, and HeLa cells, using Cytochrome P450 17A1 Antibody. The lane on the

产品名称: CYP17A1 Rabbit Polyclonal Antibody
产品货号: APRab09627



right is blocked with the synthesized peptide.



Western Blot analysis of 293 cells using CYP17A1 Polyclonal Antibody diluted at 1 : 2000

注意事项 (Note)

For research use only .