

产品名称: Cytochrome P450 17A1 (6C2) Rabbit Monoclonal Antibody
产品货号: AMRe09711



产品概述 (Summary)

产品名称 (Production Name)	Cytochrome P450 17A1 (6C2) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,FC,IP,IF-P
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
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)	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CYP17A1
别名 (Alternative Names)	CPT7; CYP17; P450C17; S17AH; CYP17A1;
基因 ID (Gene ID)	1586.0
蛋白 ID (SwissProt ID)	P05093.A synthetic peptide of human Cytochrome P450 17A1

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000,IHC 1:20-1:100,ICC/IF 1:20-1:50,FC 1:20-1:50,IP 1:20-1:50,IF-P 1:20-1:50
蛋白分子量 (Molecular Weight)	57kDa

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研究背景 (Background)

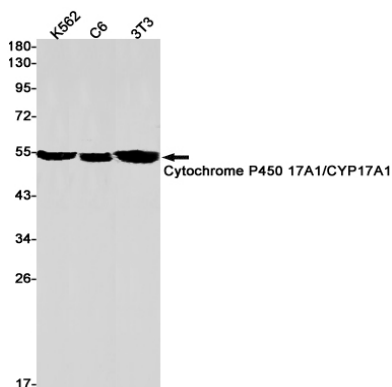
Conversion of pregnenolone and progesterone to their 17- α -hydroxylated products and subsequently to dehydroepiandrosterone (DHEA) and androstenedione. A cytochrome P450 monooxygenase involved in corticoid and androgen biosynthesis (PubMed: [9452426](http://www.uniprot.org/citations/9452426)), PubMed: [27339894](http://www.uniprot.org/citations/27339894), PubMed: [22266943](http://www.uniprot.org/citations/22266943), PubMed: [25301938](http://www.uniprot.org/citations/25301938)). Catalyzes 17- α hydroxylation of C21 steroids, which is common for both pathways. A second oxidative step, required only for androgen synthesis, involves an acyl-carbon cleavage. The 17- α hydroxy intermediates, as part of adrenal glucocorticoids biosynthesis pathway, are precursors of cortisol (PubMed: [9452426](http://www.uniprot.org/citations/9452426), PubMed: [25301938](http://www.uniprot.org/citations/25301938)) (Probable). Hydroxylates steroid hormones, pregnenolone and progesterone to form 17- α hydroxy metabolites, followed by the cleavage of the C17-C20 bond to form C19 steroids, dehydroepiandrosterone (DHEA) and androstenedione (PubMed: [9452426](http://www.uniprot.org/citations/9452426), PubMed: [27339894](http://www.uniprot.org/citations/27339894), PubMed: [22266943](http://www.uniprot.org/citations/22266943), PubMed: [25301938](http://www.uniprot.org/citations/25301938)). Has 16- α hydroxylase activity. Catalyzes 16- α hydroxylation of 17- α hydroxy pregnenolone, followed by the cleavage of the C17-C20 bond to form 16- α -hydroxy DHEA. Also 16- α hydroxylates androgens, relevant for estriol synthesis (PubMed: [27339894](http://www.uniprot.org/citations/27339894), PubMed: [25301938](http://www.uniprot.org/citations/25301938)). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed: [9452426](http://www.uniprot.org/citations/9452426), PubMed: [27339894](http://www.uniprot.org/citations/27339894), PubMed: [22266943](http://www.uniprot.org/citations/22266943), PubMed: [25301938](http://www.uniprot.org/citations/25301938)).

研究领域 (Research Area)

Cardiovascular

图片 (Image Data)

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Antibody
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Western blot detection of Cytochrome P450 17A1/CYP17A1 in K562,C6,3T3 cell lysates using Cytochrome P450 17A1/CYP17A1 antibody(1:1000 diluted).

注意事项 (Note)

For research use only .