产品名称：CYP11A1 Rabbit Polyclonal Antibody
产品货号：APRab09624

产品概述（Summary）

产品名称（Production Name）	CYP11A1 Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,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）	CYP11A1
别名（Alternative Names）	CYP11A1; CYP11A; Cholesterol side-chain cleavage enzyme; mitochondrial; CYPXIA1; Cholesterol desmolase; Cytochrome P450 11A1; Cytochrome P450(scc)
基因 ID（Gene ID）	1583.0
蛋白 ID（SwissProt ID）	P05108.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 11A1. AA range:412-461

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,ELISA 1:5000-1:10000
蛋白分子量（Molecular Weight）	60kDa

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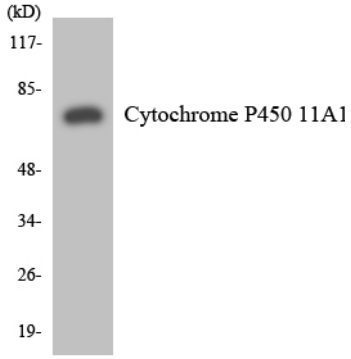
研究背景（Background）

cytochrome P450 family 11 subfamily A member 1(CYP11A1) 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 mitochondrial inner membrane and catalyzes the conversion of cholesterol to pregnenolone, the first and rate-limiting step in the synthesis of the steroid hormones. Two transcript variants encoding different isoforms have been found for this gene. The cellular location of the smaller isoform is unclear since it lacks the mitochondrial-targeting transit peptide. [provided by RefSeq, Jul 2008],catalytic activity:Cholesterol + reduced adrenal ferredoxin + O(2) = pregnenolone + 4-methylpentanal + oxidized adrenal ferredoxin + H(2)O.,cofactor:Heme group.,disease:Defects in CYP11A1 are a cause of congenital adrenal insufficiency (CAI).,disease:Defects in CYP11A1 are a cause of congenital lipoid adrenal hyperplasia (CLAH) [MIM:201710]; also called lipoid CAH. CLAH is the most severe form of adrenal hyperplasia. This autosomal recessive and potentially lethal condition includes the onset of profound adrenocortical insufficiency shortly after birth, hyperpigmentation reflecting increased production of pro-opiomelanocortin, elevated plasma renin activity as a consequence of reduced aldosterone synthesis, and male pseudohermaphroditism resulting from deficient fetal testicular testosterone synthesis. CLAH is a rare disease, except in Japan and Korea where it accounts for a significant percentage of cases of congenital adrenal hyperplasia.,function:Catalyzes the side-chain cleavage reaction of cholesterol to pregnenolone.,induction:By 8-bromo cyclic AMP.,pathway:Lipid metabolism; C21-steroid hormone metabolism.,similarity:Belongs to the cytochrome P450 family.,

研究领域（Research Area）

Steroid hormone biosynthesis;

图片（Image Data）



Western blot analysis of the lysates from HeLa cells using Cytochrome P450 11A1 antibody.

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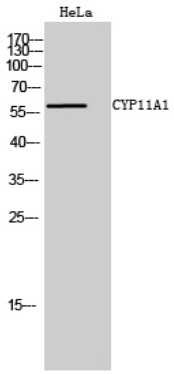

Western Blot analysis of HeLa cells using CYP11A1 Polyclonal Antibody

注意事项（Note）

For research use only .