

产品名称: CYP3A4/5 Rabbit Polyclonal Antibody
产品货号: APRab09666



产品概述 (Summary)

产品名称 (Production Name)	CYP3A4/5 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,Rat,Mouse

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)	CYP3A4/CYP3A5 CYP3A4; CYP3A3; Cytochrome P450 3A4; 1; 8-cineole 2-exo-monooxygenase; Albendazole monooxygenase; Albendazole sulfoxidase; CYP11A3; CYP11A4; Cytochrome P450 3A3; Cytochrome P450 H1p; Cytochrome P450 NF-25; Cytochrome P450-PCN1; Nifedipine
别名 (Alternative Names)	
基因 ID (Gene ID)	1576/1577
蛋白 ID (SwissProt ID)	P08684/P20815.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 3A4/5. AA range:251-300

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
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蛋白分子量 (Molecular Weight) 57kDa

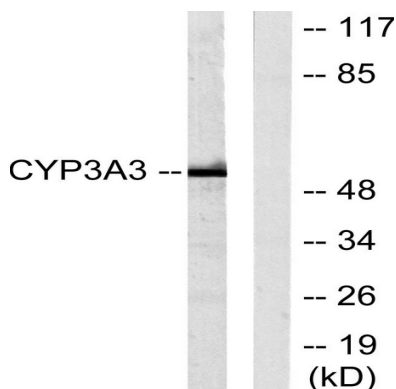
研究背景 (Background)

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by glucocorticoids and some pharmacological agents. This enzyme is involved in the metabolism of approximately half the drugs in use today, including acetaminophen, codeine, cyclosporin A, diazepam and erythromycin. The enzyme also metabolizes some steroids and carcinogens. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to exist; however, it is now thought that this sequence represents a transcript variant of CYP3A4. Alternatively spliced transcript variants encoding different isoforms: catalytic activity: Albendazole + NADPH + O(2) = albendazole S-oxide + NADP(+) + H(2)O, catalytic activity: Lithocholate + NADPH + O(2) = hyodeoxycholate + NADP(+) + H(2)O, catalytic activity: Quinine + NADPH + O(2) = 3-hydroxyquinine + NADP(+) + H(2)O, catalytic activity: Taurochenodeoxycholate + NADPH + O(2) = taurohyocholate + NADP(+) + H(2)O, cofactor: Heme group, function: Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It performs a variety of oxidation reactions (e.g. caffeine 8-oxidation, omeprazole sulfoxidation, midazolam 1'-hydroxylation and midazolam 4-hydroxylation) of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. The enzyme also hydroxylates etoposide, induction: By glucocorticoids. Also induced to high levels in liver and other tissues by various foreign compounds, including drugs, pesticides, and carcinogens, online information: CYP3A4 alleles, online information: CYP3A4 entry, similarity: Belongs to the cytochrome P450 family, tissue specificity: Expressed in prostate and liver.

研究领域 (Research Area)

Steroid hormone biosynthesis; Linoleic acid metabolism; Retinol metabolism; Metabolism of xenobiotics by cytochrome P450; Drug metabolism; Drug metabolism;

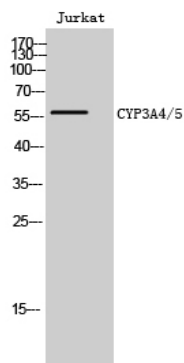
图片 (Image Data)



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Western blot analysis of lysates from Jurkat cells, using Cytochrome P450 3A4/5 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of Jurkat cells using CYP3A4/5 Polyclonal Antibody

注意事项 (Note)

For research use only .