Product Name: CYP3A4/5 Rabbit Polyclonal Antibody Catalog #: APRab09666



Summary

Production Name CYP3A4/5 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human, Rat, Mouse

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name CYP3A4/CYP3A5

CYP3A4; CYP3A3; Cytochrome P450 3A4; 1; 8-cineole 2-exo-monooxygenase;

Albendazole monooxygenase; Albendazole sulfoxidase; CYPIIIA3; CYPIIIA4;

Alternative Names

Cytochrome P450 3A3; Cytochrome P450 HLp; Cytochrome P450 NF-25; Cytochrome

P450-PCN1; Nifedipine

Gene ID 1576/1577

P08684/P20815.The antiserum was produced against synthesized peptide derived from SwissProt ID

human Cytochrome P450 3A4/5. AA range:251-300

Application

Dilution Ratio WB 1:500 - 1:2000. ELISA: 1:10000

Molecular Weight 57kD

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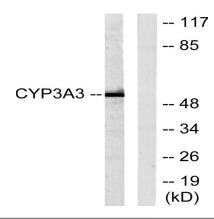
Background

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 isoforcatalytic 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 8oxidation, omeprazole sulphoxidation, 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.,

Research Area

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

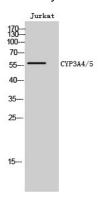
Image Data



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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

Note

For research use only.