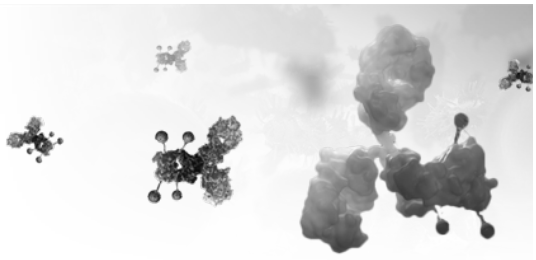

Anti-CYP3A4 (full length) polyclonal antibody (CPBT-31719RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human CYP3A4.
Antigen Description	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 have been identified.
Specificity	Expressed in prostate and liver. According to some authors, it is not expressed in brain (PubMed:19094056). According to others, weak levels of expression are measured in some brain locations (PubMed:19359404 and PubMed:18545703). Also expressed in epithe
Immunogen	Purified His-tagged full length human P450 3A4 fusion protein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Human
Purification	Ammonium Sulphate Precipitation
Conjugate	Unconjugated

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Applications	WB, IHC-P
Sequence Similarities	Belongs to the cytochrome P450 family.
Cellular Localization	Endoplasmic reticulum membrane. Microsome membrane.
Format	Liquid
Size	100 µl
Buffer	Preservative: 0.05% Sodium Azide Constituents: PBS, 1mg/ml BSA
Preservative	0.05% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	CYP3A4 cytochrome P450, family 3, subfamily A, polypeptide 4 [Homo sapiens]
Official Symbol	CYP3A4
Synonyms	CYP3A4; cytochrome P450, family 3, subfamily A, polypeptide 4; CYP3A3,cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 4; cytochrome P450 3A4; Albendazole monooxygenase; Albendazole sulfoxidase; CP33; CP34; CP3A4_HUMAN; CYP3A; CYP3A3; CYP3A4; CYPIIIA3; CYPIIIA4; Cytochrome P450 3A3; Cytochrome P450 3A4; Cytochrome P450 family 3 subfamily A polypeptide 4; Cytochrome P450 HLp; Cytochrome P450 NF-25; Cytochrome P450 subfamily IIIA polypeptide 4; Cytochrome P450-PCN1; Glucocorticoid inducible P450; HLP; MGC126680; NF 25; NF25; Nifedipine oxidase; P450 III steroid inducible; P450 PCN1; P450C3; P450PCN1; Quinine 3 monooxygenase; Quinine 3-monooxygenase; Taurochenodeoxycholate 6 alpha hydroxylase; Taurochenodeoxycholate 6-alpha-hydroxylase; OTTHUMP00000210308; nifedipine oxidase; cytochrome P450 3A3; cytochrome P450 HLp; cytochrome P450-PCN1; cytochrome P450 NF-25; albendazole sulfoxidase; quinine 3-monooxygenase; albendazole monooxygenase; P450-III, steroid inducible; glucocorticoid-inducible P450; taurochenodeoxycholate 6-alpha-hydroxylase; cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 3; cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 4; HLP; CP33; CP34; CYP3A; NF-25; CYP3A3; P450C3; CYPIIIA3; CYPIIIA4; P450PCN1;
Entrez Gene ID	1576
Protein Refseq	NP_001189784
UniProt ID	P08684

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Chromosome Location	7q21.1
Pathway	Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Biological oxidations, organism-specific biosystem; Codeine and morphine metabolism, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved bios
Function	albendazole monooxygenase activity; caffeine oxidase activity; electron carrier activity; enzyme binding; heme binding; iron ion binding; metal ion binding; monooxygenase activity; monooxygenase activity; oxidoreductase activity; oxidoreductase activity,

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