

**Product Name: Cytochrome P450 3A4 (12D7) Rabbit
Monoclonal Antibody
Catalog #: AMRe09714**



Summary

Production Name	Cytochrome P450 3A4 (12D7) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	CYP3A4 {ECO:0000303 PubMed:11470997, ECO:0000312 HGNC:HGNC:2637}
Alternative Names	CYP3A4; CYP11A3; CYP11A4; Cytochrome P450 3A3; Cytochrome P450 HLP; Cytochrome P450 NF-25; Cytochrome P450-PCN1; Nifedipine oxidase;
Gene ID	1576.0
SwissProt ID	P08684.

Application

Dilution Ratio	WB 1:1000-1:5000
Molecular Weight	57kDa

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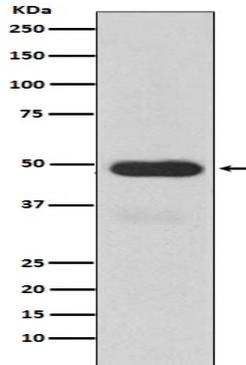


<http://www.uniprot.org/citations/22773874>). Metabolizes testosterone to less biologically active 2beta- and 6beta- hydroxytestosterones (PubMed: <http://www.uniprot.org/citations/2732228> >2732228, PubMed: <http://www.uniprot.org/citations/15373842> >15373842, PubMed: <http://www.uniprot.org/citations/15764715> >15764715). Contributes to the formation of hydroxycholesterols (oxysterols), particularly A-ring hydroxylated cholesterol at the C- 4beta position, and side chain hydroxylated cholesterol at the C-25 position, likely contributing to cholesterol degradation and bile acid biosynthesis (PubMed: <http://www.uniprot.org/citations/21576599> >21576599). Catalyzes bisallylic hydroxylation of polyunsaturated fatty acids (PUFA) (PubMed: <http://www.uniprot.org/citations/9435160> >9435160). Catalyzes the epoxidation of double bonds of PUFA with a preference for the last double bond (PubMed: <http://www.uniprot.org/citations/19965576> >19965576). Metabolizes endocannabinoid arachidonylethanolamide (anandamide) to 8,9-, 11,12-, and 14,15- epoxyeicosatrienoic acid ethanolamides (EpETRE-EAs), potentially modulating endocannabinoid system signaling (PubMed: <http://www.uniprot.org/citations/20702771> >20702771). Plays a role in the metabolism of retinoids. Displays high catalytic activity for oxidation of all-trans-retinol to all-trans-retinal, a rate- limiting step for the biosynthesis of all-trans-retinoic acid (atRA) (PubMed: <http://www.uniprot.org/citations/10681376> >10681376). Further metabolizes atRA toward 4-hydroxyretinoate and may play a role in hepatic atRA clearance (PubMed: <http://www.uniprot.org/citations/11093772> >11093772). Responsible for oxidative metabolism of xenobiotics. Acts as a 2-exo- monooxygenase for plant lipid 1,8-cineole (eucalyptol) (PubMed: <http://www.uniprot.org/citations/11159812> >11159812). Metabolizes the majority of the administered drugs. Catalyzes sulfoxidation of the anthelmintics albendazole and fenbendazole (PubMed: <http://www.uniprot.org/citations/10759686> >10759686). Hydroxylates antimalarial drug quinine (PubMed: <http://www.uniprot.org/citations/8968357> >8968357). Acts as a 1,4-cineole 2-exo-monooxygenase (PubMed: <http://www.uniprot.org/citations/11695850> >11695850). Also involved in vitamin D catabolism and calcium homeostasis. Catalyzes the inactivation of the active hormone calcitriol (1-alpha,25-dihydroxyvitamin D(3)) (PubMed: <http://www.uniprot.org/citations/29461981> >29461981).

Research Area

Image Data

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Western blot analysis of Cytochrome P450 3A4 expression in Human fetal liver lysate.

Note

For research use only.